

CENTRO DE INVESTIGACIÓN DEL CÁNCER

FACULTAD DE CIENCIAS

GRADO DE ESTADÍSTICA

Trabajo de fin de Grado: Anexos.

**Flujos de trabajo sistemáticos para el diseño y análisis
computacional de microarrays de proteínas.**

Autora: Helena Fidalgo Gómez

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Salamanca, 2019

Anexos:

Figura 1. Primer conjunto de microarrays, escaneados en GenePix.

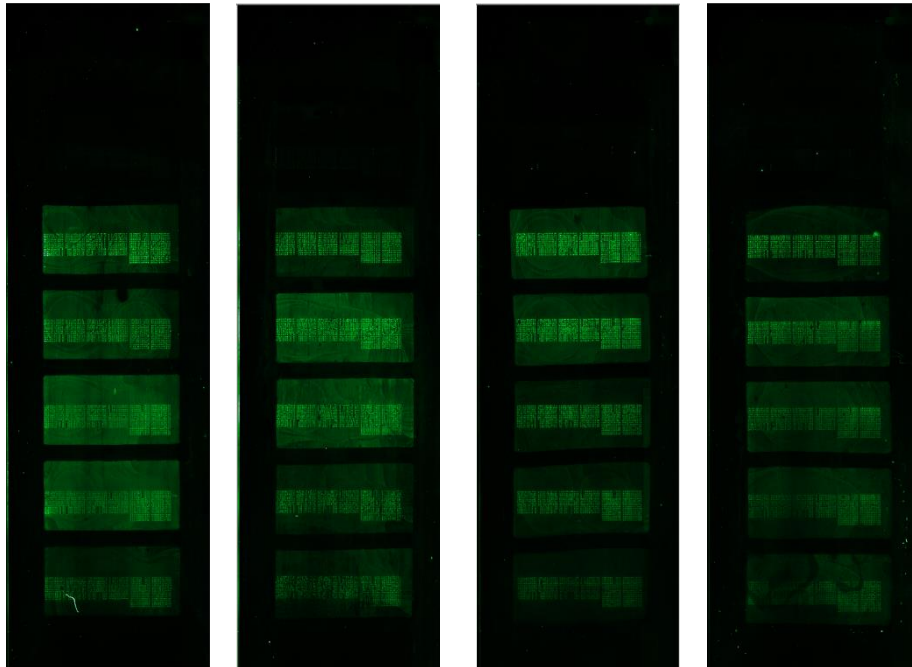


Figura 2. Segundo conjunto de microarrays, escaneados con GenePix.

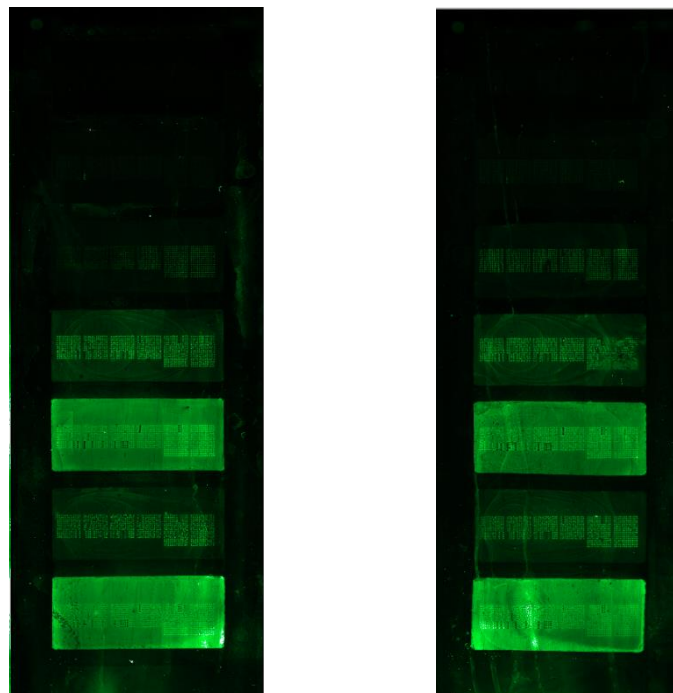


Figura 3. Tercer conjunto de microarrays, escaneados con GenePix.

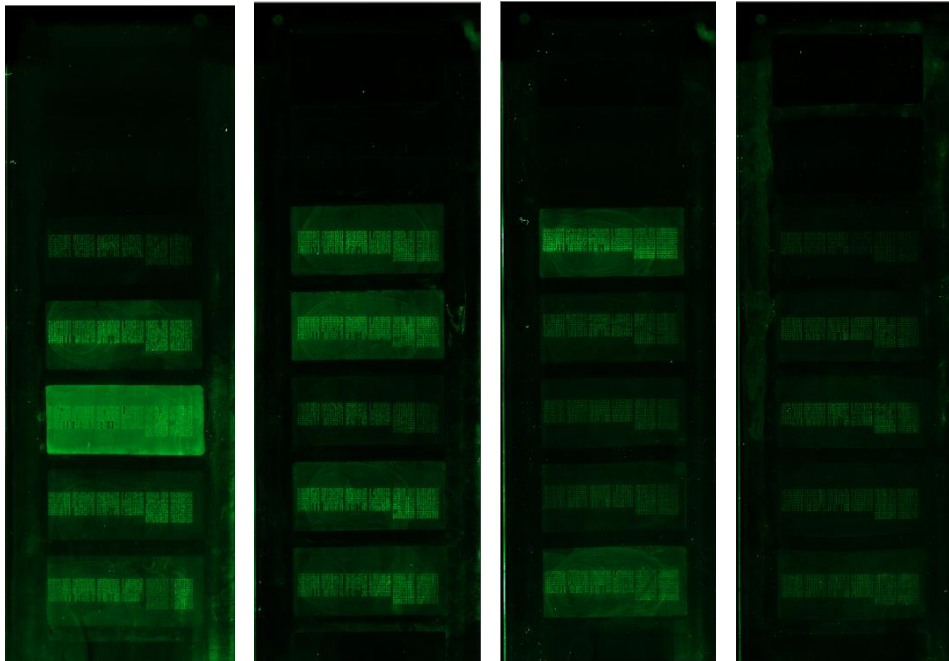


Tabla 1. Lista proteínas subarray 1, microarray 3.

<i>Lista de proteínas - Subarray 1</i>		
<i>Anti-human IL-2</i>	<i>P-VEGFR2 (Y1212)</i>	<i>P-AS160</i>
<i>ATIII sc-271987</i>	<i>Rabbit pAb p-BIK</i>	<i>P-BLNK</i>
<i>BIOTIN 10 pg</i>	<i>CASPASA2-MM7</i>	<i>P-c-Cbl</i>
<i>Cleaved PARP</i>	<i>Anti Biotin 1/200</i>	<i>COX IV</i>

Tabla 2. Lista de proteínas subarray 1.A, microarray 3.

<i>Lista de proteínas - Subarray 1.A</i>		
<i>Anti-human IL-2</i>	<i>P-p44/42 MPAK</i>	<i>COX IV</i>
<i>ATIII sc-271987</i>	<i>P-VEGFR2 (Y1212)</i>	<i>P-AS160</i>
<i>BIOTIN 10 pg</i>	<i>Rabbit pAb p-BIK</i>	<i>P-BLNK</i>
<i>CASPASA2</i>	<i>Anti Biotin 1/200</i>	<i>P-c-Cbl</i>
<i>Cleaved PARP</i>		

Tabla 3. Lista de proteínas subarray 1.B, microarray 3.

<i>Lista de proteínas - Subarray 1.B</i>	
<i>ATIII sc-271987</i>	<i>Rabbit pAb p-BIK</i>
<i>CASPASA2</i>	<i>BIOTIN 10 pg</i>

Tabla 4. Lista de proteínas subarray 2, microarray 3.

<i>Lista de proteínas - Subarray 2</i>		
<i>anti biotin</i>	<i>C-EBPalpha</i>	<i>HCAM sc-9960</i>
<i>ANTI CHEMOKINE</i>	<i>c-jun</i>	<i>HIF1a</i>
<i>ANTI FOS</i>	<i>C-MYC</i>	<i>HSF-1</i>
<i>Anti-GM-CSF</i>	<i>CALNEXIN</i>	<i>junB</i>
<i>Anti-human IL-21</i>	<i>CASPASA9</i>	<i>MDM2 - 2</i>
<i>Anti-human IL-5</i>	<i>CDC2 (POH1)</i>	<i>Mouse mAb CATHEPSIN K</i>
<i>Anti-human IL-6</i>	<i>Cleaved PARP (asp214)</i>	<i>OPN sc-21742</i>
<i>Anti-human IL-8</i>	<i>COX IV</i>	<i>P-4EBP1</i>
<i>ATIII sc-271987</i>	<i>CyclinD2</i>	<i>P-AKT (Substrate)</i>
<i>BAD</i>	<i>E2F1</i>	<i>P-BLNK</i>
<i>BAX</i>	<i>EG5</i>	<i>P-Btk</i>
<i>BCL-XL</i>	<i>Enolase1</i>	<i>P-c-Cbl</i>
<i>BIOTIN 10 pg</i>	<i>GAPDH</i>	<i>P-CDC2</i>
<i>BIP</i>	<i>GST 60 pg</i>	<i>P-p44/42 MPAK (Erk 1/2)</i>
<i>EBPalpha (D56F10/XPC</i>	<i>RB</i>	<i>P-PLCy2</i>
<i>c-jun</i>	<i>Rb pAb anti CSF</i>	<i>P-RB (s807/811)</i>
<i>C-MYC</i>	<i>Rb pAb Anti IFN g</i>	<i>P-Src familiy</i>
<i>CALNEXIN</i>	<i>Rb pAb anti IL-4</i>	<i>P-SyK</i>
<i>CASPASA9</i>	<i>Rb pAb anti IL-6</i>	<i>P-VEGFR2 (y1175)</i>
<i>CDC2 (POH1)</i>	<i>Rb pAb Anti TNF a</i>	<i>P-VEGFR2 (Y1212)</i>
<i>Cleaved PARP</i>	<i>VEGF Receptor 2</i>	<i>p27Kip1</i>
<i>COX IV</i>	<i>CASPASA2</i>	<i>p38_MM6</i>
<i>CyclinD2</i>	<i>Rabbit pAb p-BIK</i>	<i>PCKIT</i>
<i>E2F1</i>	<i>GST 60 pg</i>	<i>Phospho-P38</i>
<i>EG5</i>	<i>Rabbit mAb p-VEGF</i>	<i>PU1</i>
<i>Enolase1</i>	<i>GAPDH</i>	<i>Rabbit mAb ACTINA</i>

Tabla 5. Lista de proteínas subarray 2.A, primer conjunto de microarrays.

<i>Lista de proteínas - Subarray 2.A</i>		
<i>anti biotin</i>	<i>P-VEGFR2 (y1175)</i>	<i>C-MYC</i>
<i>ANTI CHEMOKINE</i>	<i>P-VEGFR2 (Y1212)</i>	<i>CALNEXIN</i>
<i>ANTI FOS</i>	<i>p27Kip1</i>	<i>CASPASA2-MM7</i>
<i>Anti-GM-CSF</i>	<i>p38_MM6</i>	<i>CASPASA9</i>
<i>Anti-human IL-21</i>	<i>PCKIT</i>	<i>CDC2 (POH1)</i>
<i>Anti-human IL-5</i>	<i>Phospho-P38</i>	<i>Cleaved PARP</i>
<i>Anti-human IL-6</i>	<i>PU1</i>	<i>COX IV</i>
<i>Anti-human IL-8</i>	<i>Rabbit mAb p-VEGF</i>	<i>CyclinD2</i>
<i>ATIII sc-271987</i>	<i>Rabbit pAb p-BIK</i>	<i>EG5</i>
<i>BAD</i>	<i>RB</i>	<i>Enolase1</i>
<i>BAX</i>	<i>Rb pAb anti CSF</i>	<i>GAPDH</i>
<i>BCL-XL</i>	<i>Rb pAb Anti IFN g</i>	<i>HCAM sc-9960</i>
<i>BIP</i>	<i>Rb pAb anti IL-4</i>	<i>HIF1a</i>
<i>BIOTIN 10 pg</i>	<i>Rb pAb anti IL-6</i>	<i>HSF-1</i>

<i>C-EBPalpha</i>	<i>Rb pAb Anti TNF a</i>	<i>junB</i>
<i>c-jun</i>	<i>VEGF Receptor 2</i>	<i>MDM2 - 2</i>
<i>P-RB (s807/811)</i>	<i>P-c-Cbl</i>	<i>Mouse mAb CATHEPSIN K</i>
<i>P-Src familiy</i>	<i>P-CDC2</i>	<i>OPN sc-21742</i>
<i>P-SyK</i>	<i>P-PLCy2</i>	<i>P-4EBP1</i>
<i>P-Btk</i>	<i>P-BLNK</i>	

Tabla 6. Lista de proteínas subarray 2.B, primer conjunto de microarrays.

<i>Lista de proteínas - Subarray 2.B</i>		
<i>anti biotin</i>	<i>P-Btk</i>	<i>COX IV</i>
<i>Anti-human IL-2</i>	<i>P-c-Cbl</i>	<i>EG5</i>
<i>ATIII sc-271987</i>	<i>P-CDC2</i>	<i>GST 60 pg</i>
<i>BIOTIN 10 pg</i>	<i>P-VEGFR2 (Y1212)</i>	<i>HSF-1</i>
<i>CASPASA2</i>	<i>Rabbit pAb p-BIK</i>	<i>Rb pAb Anti IFN g</i>
<i>Cleaved PARP (asp214)</i>		

Tabla 7. Lista de proteínas subarray 3, microarray 3.

<i>Lista de proteínas - Subarray 3.A</i>		
<i>ATIII sc-271987</i>	<i>OPN sc-21742</i>	
<i>CASPASA2</i>	<i>BIOTIN 10 pg</i>	
<i>Cleaved PARP</i>	<i>Anti Biotin 1/200</i>	
<i>COX IV</i>		

Tabla 8. Lista de proteínas subarray 4, microarray 4.

<i>Lista de proteínas - Subarray 4</i>	
<i>CASPASA2</i>	<i>BIOTIN 10 pg</i>
<i>COX IV</i>	<i>Anti Biotin 1/200</i>
<i>VEGF Receptor 2</i>	

Tabla 9. Lista de proteínas subarray 5, microarray 4.

<i>Lista de proteínas - Subarray 5</i>		
<i>Anti-GM-CSF</i>	<i>Rb pAb Anti IFN g</i>	<i>CASPASA2</i>
<i>Anti-human IL-5</i>	<i>Rb pAb anti IL-6</i>	<i>P-C-MYC</i>
<i>Anti-human IL-6</i>	<i>Rb pAb Anti TNF a</i>	<i>anti biotin</i>
<i>BCL-XL</i>	<i>BIOTIN 10 pg</i>	<i>BIP</i>

Tabla 10. Lista de proteínas subarray 6, microarray 5.

<i>Lista de proteínas - Subarray 6</i>		
<i>4EBP1</i>	<i>P-TYR</i>	<i>CXCR4</i>
<i>a-Tubulina</i>	<i>p21</i>	<i>CyclinB1</i>
<i>AIOLOS(D1C1E)</i>	<i>PDGFR-B</i>	<i>CyclinD2</i>
<i>AK1</i>	<i>Phospho-H2AX</i>	<i>ERK2</i>
<i>Anti Biotin 1/200</i>	<i>PhosphoHistona3</i>	<i>FGF-13</i>

<i>anti biotin</i>	<i>PIDD</i>	<i>FLG(C-15)</i>
<i>ANTI CHEMOKINE</i>	<i>PIM-1</i>	<i>HCAM sc-9960</i>
<i>ANTI FOS</i>	<i>PIM1(C93F2)</i>	<i>HDAC6</i>
<i>ANTI JUN</i>	<i>PIM2</i>	<i>HEXOKINASE II</i>
<i>Anti-GM-CSF</i>	<i>PUMAA</i>	<i>HGF-a</i>
<i>Anti-human IL-5</i>	<i>Rabbit mAb ACTINA(C-2)</i>	<i>HIF1a</i>
<i>Anti-human IL-6</i>	<i>Rabbit pAb MCL1</i>	<i>HSF-1</i>
<i>Anti-human IL-8</i>	<i>RAIDD</i>	<i>HSP60</i>
<i>ATF-4</i>	<i>Rb pAb anti CSF</i>	<i>HSP90</i>
<i>ATF-6</i>	<i>Rb pAb Anti IFN g</i>	<i>IGF-IrB</i>
<i>ATIII sc-271987</i>	<i>Rb pAb anti IL-2</i>	<i>IKAROS</i>
<i>BCL-2</i>	<i>Rb pAb anti IL-4</i>	<i>IkB-a(H-4)</i>
<i>BSA+BS3</i>	<i>Rb pAb anti IL-6</i>	<i>Integrinalpha6</i>
<i>C-EBPalpha</i>	<i>Rb pAb Anti TNF a</i>	<i>IRF4</i>
<i>CALNEXIN</i>	<i>S6</i>	<i>MAX</i>
<i>CASPASA2</i>	<i>SOCS-3</i>	<i>MCL1</i>
<i>CASPASA9</i>	<i>SOCS6</i>	<i>MDM2 - 2</i>
<i>CD 21 sc-13135</i>	<i>SQSTM1</i>	<i>MDM2</i>
<i>CD19 Clone HIB192</i>	<i>STAT3</i>	<i>MEK1/2</i>
<i>CDC2 (POH1)</i>	<i>TRAP</i>	<i>Mouse mAb CATHEPSIN K</i>
<i>Cleaved PARP</i>	<i>VEGF Receptor 2</i>	<i>N-FATc1</i>
<i>CRBN</i>	<i>BIOTIN 10 pg</i>	<i>NEUREGULIN-3</i>
<i>P-MEK1/2</i>	<i>P-CRAF (ser 338)</i>	<i>NFKappaBP65</i>
<i>p-PDGFR-B</i>	<i>p-ERK</i>	<i>NOXA</i>
<i>P-PRAS40 (t246)</i>	<i>P-GABI (tyr 627)</i>	<i>OPN sc-21742</i>
<i>P-STAT3</i>	<i>P-GSK3B</i>	<i>p-AKT (T308)</i>
<i>P-AS160</i>	<i>P-BLNK</i>	

Tabla 11. Lista de proteínas subarray 6.A, microarray 5.

<i>Lista de proteínas - Subarray 6.A</i>		
<i>4EBP1</i>	<i>P-PRAS40 (t246)</i>	<i>CRBN</i>
<i>a-Tubulina</i>	<i>P-STAT3</i>	<i>CXCR4</i>
<i>AIOLOS(D1C1E)</i>	<i>P-TYR</i>	<i>CyclinB1</i>
<i>Anti Biotin 1/200</i>	<i>p21</i>	<i>CyclinD2</i>
<i>anti biotin</i>	<i>PDGFR-B</i>	<i>ERK2</i>
<i>ANTI CHEMOKINE</i>	<i>Phospho-H2AX</i>	<i>FGF-13</i>
<i>ANTI FOS</i>	<i>PhosphoHistona3</i>	<i>FLG(C-15)</i>
<i>ANTI JUN</i>	<i>PIDD</i>	<i>HDAC6</i>
<i>Anti-human IL-5</i>	<i>PIM-1</i>	<i>HGF-a</i>
<i>Anti-human IL-8</i>	<i>PIM2</i>	<i>HIF1a</i>
<i>ATF-4</i>	<i>PUMAA</i>	<i>HSF-1</i>
<i>ATF-6</i>	<i>Rabbit mAb ACTINA</i>	<i>IGF-IrB</i>
<i>ATIII sc-271987</i>	<i>RAIDD-MM4</i>	<i>IkB-a(H-4)</i>

<i>ATIII sc-271987</i>	<i>RAIDD-MM4</i>	<i>IkB-a(H-4)</i>
<i>BCL-2</i>	<i>Rb pAb Anti IFN g</i>	<i>Integrinalpha6</i>
<i>BSA+BS3</i>	<i>Rb pAb anti IL-2</i>	<i>IRF4</i>
<i>C-EBPalpha</i>	<i>Rb pAb anti IL-6</i>	<i>MAX</i>
<i>CALNEXIN</i>	<i>Rb pAb Anti TNF a</i>	<i>MCL1</i>
<i>CASPASA2</i>	<i>S6</i>	<i>MDM2 - 2</i>
<i>CASPASA9</i>	<i>SOCS-3</i>	<i>MDM2</i>
<i>CD 21 sc-13135</i>	<i>SOCS6</i>	<i>MEK1/2</i>
<i>CD19 Clone HIB192</i>	<i>SQSTM1</i>	<i>N-FATc1</i>
<i>CDC2 (POH1)</i>	<i>STAT3</i>	<i>NEUREGULIN-3</i>
<i>Cleaved PARP (asp214)</i>	<i>BIOTIN 10 pg</i>	<i>NFKappaBP65</i>
<i>P-MEK1/2</i>	<i>p-ERK-MM4</i>	<i>NOXA</i>
<i>p-PDGFR-B</i>	<i>P-GABI (tyr 627)</i>	<i>OPN sc-21742</i>
<i>P-CRAF (ser 338)</i>	<i>P-BLNK</i>	<i>p-AKT (T308)</i>
<i>P-AS160</i>		

Tabla 12. Lista de proteínas subarray 6.B, microarray 5.

<i>Lista de proteínas - Subarray 6.B</i>		
<i>a-Tubulina</i>	<i>N-FATc1</i>	<i>IkB-a(H-4)</i>
<i>AK1</i>	<i>NEUREGULIN-3</i>	<i>IRF4</i>
<i>ANTI CHEMOKINE</i>	<i>NOXA</i>	<i>MAX</i>
<i>ANTI FOS</i>	<i>p-ERK-MM4</i>	<i>MDM2</i>
<i>Anti-human IL-5</i>	<i>P-GABI (tyr 627)</i>	<i>Mouse mAb CATHEPSIN K</i>
<i>Anti-human IL-6</i>	<i>p-PDGFR-B</i>	<i>Rb pAb anti IL-6</i>
<i>Anti-human IL-8</i>	<i>P-STAT3</i>	<i>SOCS-3</i>
<i>ATF-4</i>	<i>P-TYR</i>	<i>SQSTM1</i>
<i>ATF-6</i>	<i>p21</i>	<i>STAT3</i>
<i>ATIII sc-271987</i>	<i>PDGFR-B</i>	<i>VEGF Receptor 2</i>
<i>BCL-2</i>	<i>PhosphoHistona3</i>	<i>BIOTIN 10 pg</i>
<i>CASPASA2</i>	<i>PIDD</i>	<i>CyclinB1</i>
<i>CD 21 sc-13135</i>	<i>PUMAA</i>	<i>ERK2</i>
<i>CRBN</i>	<i>Rabbit mAb ACTINA</i>	<i>FGF-13</i>
<i>CXCR4-MM8</i>	<i>Rabbit pAb MCL1</i>	<i>FLG(C-15)</i>
<i>IGF-IrB</i>	<i>HIF1a</i>	

Tabla 13. Lista de proteínas subarray 7, microarray 5.

<i>Lista de proteínas - Subarray 7</i>		
<i>a-Tubulina</i>	<i>p21</i>	<i>HCAM sc-9960</i>
<i>AIOLOS(D1C1E)</i>	<i>PDGFR-B</i>	<i>HDAC6</i>
<i>AK1</i>	<i>Phospho-H2AX</i>	<i>HGF-a</i>
<i>anti biotin</i>	<i>PhosphoHistona3</i>	<i>HIF1a</i>
<i>ANTI CHEMOKINE</i>	<i>PIDD</i>	<i>HLA-DR1</i>
<i>ANTI FOS</i>	<i>PIM-1</i>	<i>HSF-1</i>

<i>ANTI JUN-MM8</i>	<i>PIM1(C93F2)</i>	<i>HSP40</i>
<i>Anti-GM-CSF</i>	<i>PIM3</i>	<i>HSP60</i>
<i>Anti-human IL-5</i>	<i>PUMAA</i>	<i>HSP70</i>
<i>Anti-human IL-6</i>	<i>Rabbit mAb ACTINA(C-2)</i>	<i>HSP90</i>
<i>Anti-human IL-8</i>	<i>Rabbit pAb MCL1</i>	<i>IGF-IrB</i>
<i>ATF-4</i>	<i>RAIDD-MM4</i>	<i>IKAROS</i>
<i>ATF-6</i>	<i>Rb pAb anti CSF</i>	<i>IkB-a(H-4)</i>
<i>ATIII sc-271987</i>	<i>Rb pAb Anti IFN g</i>	<i>IRF4</i>
<i>BCL-2</i>	<i>Rb pAb anti IL-2</i>	<i>MAX</i>
<i>CALNEXIN</i>	<i>Rb pAb anti IL-4</i>	<i>MCL1</i>
<i>CASPASA2</i>	<i>Rb pAb anti IL-6</i>	<i>MDM2 - 2</i>
<i>CASPASA9</i>	<i>Rb pAb Anti TNF a</i>	<i>MDM2</i>
<i>CD 21 sc-13135</i>	<i>S6</i>	<i>MEK1/2</i>
<i>CDC2 (POH1)</i>	<i>SOCS-3</i>	<i>N-FATc1</i>
<i>CRBN-MM9</i>	<i>SOCS6</i>	<i>NEUREGULIN-3</i>
<i>CXCR4</i>	<i>SOD21</i>	<i>NFKappaBP65</i>
<i>CyclinB1</i>	<i>SQSTM1</i>	<i>NOXA</i>
<i>ERK2</i>	<i>STAT3</i>	<i>OPN sc-21742</i>
<i>FGF-13</i>	<i>TUBERIN/TSC2</i>	<i>P-4EBP1</i>
<i>FLG(C-15)</i>	<i>VEGF Receptor 2</i>	<i>p-AKT (T308)</i>
<i>GAPDH</i>	<i>BIOTIN 10 pg</i>	<i>P-BRCA1 (ser1524)</i>
<i>p-PDGFR-B</i>	<i>P-ERK (t202/y204)</i>	<i>P-C-MYC</i>
<i>P-RB (s807/811)</i>	<i>p-ERK</i>	<i>P-CDC2</i>
<i>P-S6 (ser235/236)</i>	<i>P-GABI (tyr 627)</i>	<i>P-CRAF (ser 338)</i>
<i>P-STAT3</i>	<i>P-GSK3B</i>	<i>P-MEK1/2</i>
<i>P-TYR</i>		

Tabla 14. Lista de proteínas 7.A, microarray 5.

<i>Lista de proteínas - Subarray 7.A</i>		
<i>a-Tubulina</i>	<i>p-PDGFR-B</i>	<i>HLA-DR1</i>
<i>AIOLOS(DIC1E)</i>	<i>P-S6 (ser235/236)</i>	<i>HSP40</i>
<i>anti biotin</i>	<i>P-STAT3</i>	<i>HSP60</i>
<i>ANTI CHEMOKINE</i>	<i>P-TYR</i>	<i>HSP70</i>
<i>ANTI FOS</i>	<i>p21</i>	<i>HSP90</i>
<i>ANTI JUN</i>	<i>PDGFR-B</i>	<i>IGF-IrB</i>
<i>Anti-GM-CSF</i>	<i>Phospho-H2AX</i>	<i>IKAROS</i>
<i>Anti-human IL-5</i>	<i>PhosphoHistona3</i>	<i>IkB-a(H-4)</i>
<i>Anti-human IL-6</i>	<i>PIDD</i>	<i>IRF4</i>
<i>Anti-human IL-8</i>	<i>PIM-1</i>	<i>MAX</i>
<i>ATF-4</i>	<i>PIM1(C93F2)</i>	<i>MCL1</i>
<i>ATF-6</i>	<i>PIM3</i>	<i>MDM2 - 2</i>
<i>BCL-2</i>	<i>PUMAA</i>	<i>MDM2</i>
<i>CALNEXIN</i>	<i>Rabbit pAb MCL1</i>	<i>MEK1/2</i>

<i>CALNEXIN</i>	<i>Rabbit pAb MCL1</i>	<i>MEK1/2</i>
<i>CASPASA2</i>	<i>RAIDD</i>	<i>NEUREGULIN-3</i>
<i>CASPASA9</i>	<i>Rb pAb Anti IFN g</i>	<i>NFKappaBP65</i>
<i>CD 21 sc-13135</i>	<i>Rb pAb anti IL-2</i>	<i>p-AKT (T308)</i>
<i>CDC2 (POH1)</i>	<i>Rb pAb anti IL-4</i>	<i>P-BRCA1 (ser1524)</i>
<i>CRBN</i>	<i>Rb pAb anti IL-6</i>	<i>P-CDC2</i>
<i>CXCR4</i>	<i>Rb pAb Anti TNF a</i>	<i>P-CRAF (ser 338)</i>
<i>CyclinB1</i>	<i>S6</i>	<i>P-ERK (t202/y204)</i>
<i>ERK2</i>	<i>SOCS-3</i>	<i>p-ERK</i>
<i>FGF-13</i>	<i>SOCS6</i>	<i>P-GABI (tyr 627)</i>
<i>FLG(C-15)</i>	<i>SOD21</i>	<i>P-GSK3B</i>
<i>GAPDH</i>	<i>SQSTM1</i>	<i>P-MEK1/2</i>
<i>HDAC6</i>	<i>STAT3</i>	<i>BIOTIN 10 pg</i>
<i>HGF-a</i>	<i>TUBERIN/TSC2</i>	<i>HIF1a</i>

Tabla 15. Lista de proteínas 7.B, microarray 5.

<i>Lista de proteínas - Subarray 7.B</i>		
<i>anti biotin</i>	<i>P-GABI (tyr 627)</i>	<i>HIF1a</i>
<i>ANTI FOS</i>	<i>p-PDGFR-B</i>	<i>IkB-a(H-4)</i>
<i>Anti-GM-CSF</i>	<i>P-STAT3</i>	<i>IRF4</i>
<i>Anti-human IL-5</i>	<i>P-TYR</i>	<i>MDM2 - 2</i>
<i>Anti-human IL-6</i>	<i>PDGFR-B</i>	<i>MDM2</i>
<i>Anti-human IL-8</i>	<i>PhosphoHistona3</i>	<i>N-FATc1</i>
<i>ATF-4</i>	<i>PIDD</i>	<i>NOXA</i>
<i>ATF-6</i>	<i>Rabbit mAb ACTINA</i>	<i>p-ERK</i>
<i>BCL-2</i>	<i>Rabbit pAb MCL1</i>	<i>BIOTIN 10 pg</i>
<i>CASPASA2</i>	<i>Rb pAb anti IL-6</i>	<i>HGF-a</i>
<i>CyclinB1</i>	<i>Rb pAb Anti TNF a</i>	<i>VEGF Receptor 2</i>
<i>ERK2</i>	<i>SOCS-3</i>	<i>FGF-13</i>

Tabla 16. Lista de proteínas 8.A, microarray 5.

<i>Lista de proteínas - Subarray 8.A</i>		
<i>ATF-4</i>	<i>P-TYR</i>	<i>MAX</i>
<i>ATIII sc-271987</i>	<i>p21</i>	<i>MCL1</i>
<i>BCL-2</i>	<i>PDGFR-B</i>	<i>MDM2</i>
<i>CASPASA2</i>	<i>PIDD</i>	<i>Mouse mAb CATHEPSIN K</i>
<i>CD 21 sc-13135</i>	<i>PIM-1</i>	<i>N-FATc1</i>
<i>CyclinB1</i>	<i>PUMAA</i>	<i>NEUREGULIN-3</i>
<i>ERK2</i>	<i>Rabbit mAb ACTINA</i>	<i>NOXA</i>
<i>FGF-13</i>	<i>Rabbit pAb MCL1</i>	<i>OPN sc-21742</i>
<i>FLG(C-15)</i>	<i>SOCS-3</i>	<i>p-PDGFR-B</i>

<i>HCAM sc-9960</i>	<i>SQSTM1</i>	<i>Anti Biotin 1/200</i>
<i>HDAC6</i>	<i>STAT3</i>	<i>IRF4</i>
<i>HGF-a</i>	<i>NFKappaBP65</i>	<i>BIOTIN 10 pg</i>
<i>IkB-a(H-4)</i>		

Tabla 17. Lista de proteínas subarray 8.B, microarray 6.

<i>Lista de proteínas - Subarray 7.B</i>
<i>CASPASA2</i>
<i>BIOTIN 10 pg</i>

Tabla 18. Lista de proteínas subarray 9, microarray 6.

<i>Lista de proteínas - Subarray 9</i>		
<i>Acetyl-Histona3</i>	<i>P-VEGFR2 (Y1212)</i>	<i>Enolase1</i>
<i>Acetyl-Histona4</i>	<i>PIM-1</i>	<i>GST 60 pg</i>
<i>AIF</i>	<i>Rabbit mAb ACTINA</i>	<i>HCAM sc-9960</i>
<i>AK1</i>	<i>Rabbit pAb MCL1</i>	<i>HEXOKINASE II</i>
<i>AKT</i>	<i>Rabbit pAb p-BIK</i>	<i>HGF-a</i>
<i>anti biotin</i>	<i>Rb pAb anti CSF</i>	<i>HIF1a</i>
<i>ANTI FOS</i>	<i>Rb pAb Anti IFN g</i>	<i>MAX</i>
<i>Anti-human IL-21</i>	<i>Rb pAb anti IL-2</i>	<i>MDM2 - 2</i>
<i>Anti-human IL-6</i>	<i>Rb pAb anti IL-4</i>	<i>Mouse mAb CATHEPSIN K</i>
<i>ATIII sc-271987</i>	<i>Rb pAb anti IL-6</i>	<i>NOXA</i>
<i>BCL-2</i>	<i>Rb pAb Anti TNF a</i>	<i>OPN sc-21742</i>
<i>CASPASA2</i>	<i>SOCS6</i>	<i>p-ERK-MM4</i>
<i>CD 21 sc-13135</i>	<i>SQSTM1</i>	<i>BIOTIN 10 pg</i>
<i>Cleaved PARP</i>	<i>VEGF Receptor 2</i>	<i>COX IV</i>

Tabla 19. Lista de proteínas 9.A, microarray 6.

<i>Lista de proteínas - Subarray 9.A</i>		
<i>Acetyl-Histona3</i>	<i>PIM-1</i>	<i>Cleaved PARP</i>
<i>Acetyl-Histona4</i>	<i>Rabbit mAb ACTINA</i>	<i>COX IV</i>
<i>AIF</i>	<i>Rabbit pAb MCL1</i>	<i>Enolase1</i>
<i>AK1</i>	<i>Rabbit pAb p-BIK</i>	<i>GST 60 pg</i>
<i>AKT</i>	<i>Rb pAb anti CSF</i>	<i>HCAM sc-9960</i>
<i>anti biotin</i>	<i>Rb pAb anti IL-2</i>	<i>HEXOKINASE II</i>
<i>ANTI FOS</i>	<i>Rb pAb anti IL-4</i>	<i>HGF-a</i>
<i>Anti-human IL-21</i>	<i>Rb pAb anti IL-6</i>	<i>HIF1a</i>
<i>Anti-human IL-6</i>	<i>Rb pAb Anti TNF a</i>	<i>MAX</i>
<i>ATIII sc-271987</i>	<i>SOCS6</i>	<i>MDM2 - 2</i>
<i>BCL-2</i>	<i>SQSTM1</i>	<i>Mouse mAb CATHEPSIN K</i>
<i>CASPASA2</i>	<i>VEGF Receptor 2</i>	<i>NOXA</i>
<i>CD 21 sc-13135</i>	<i>BIOTIN 10 pg</i>	<i>OPN sc-21742</i>
<i>P-VEGFR2 (Y1212)</i>	<i>p-ERK</i>	

Tabla 20. Lista de proteínas 9.B, microarray 6.

<i>Lista de proteínas - Subarray 9.B</i>	
<i>ATIII sc-271987</i>	<i>HCAM sc-9960</i>
<i>CASPASA2</i>	<i>Rabbit pAb p-BIK</i>
<i>Cleaved PARP</i>	<i>BIOTIN 10 pg</i>

Tabla 22. Lista de proteínas 9.C, microarray 6.

<i>Lista de proteínas - Subarray 9.C</i>
<i>CASPASA2</i>
<i>BIOTIN 10 pg</i>

Tabla 23. Lista de proteínas 9.D, microarray 6.

<i>Lista de proteínas - Subarray 9.D</i>
<i>CASPASA2</i>
<i>BIOTIN 10 pg</i>

Tabla 24. Lista de proteínas del subarray 1, microarray 11.

<i>Lista de proteínas - Subarray 1</i>		
<i>VEGF Receptor 2</i>	<i>P-CRAF (ser 338)</i>	<i>CyclinD3</i>
<i>TRAP</i>	<i>P-CDC2</i>	<i>CyclinD2</i>
<i>S6</i>	<i>P-CD79A</i>	<i>CyclinD1</i>
<i>Rb pAb Anti TNF a</i>	<i>P-CD19</i>	<i>CyclinB1</i>
<i>Rb pAb anti IL-6</i>	<i>P-C-MYC</i>	<i>CXCR4</i>
<i>Rb pAb anti IL-4</i>	<i>P-c-Cbl</i>	<i>CRBN</i>
<i>Rb pAb anti IL-2</i>	<i>P-BTK</i>	<i>CDC2 (POH1)</i>
<i>Rb pAb Anti IFN g</i>	<i>P-Btk</i>	<i>CASPASA9</i>
<i>Rb pAb anti CSF</i>	<i>P-BLNK</i>	<i>CASPASA7</i>
<i>RB</i>	<i>P-BAD (ser112)</i>	<i>CASPASA3</i>
<i>RAIDD</i>	<i>P-B-Catenin (T41/s45)</i>	<i>CASPASA2</i>
<i>Rabbit VDAC mAb</i>	<i>P-AS160</i>	<i>CALNEXIN</i>
<i>Rabbit pAb CASPASA 2</i>	<i>P-AKT (Substrate)</i>	<i>C-MYC</i>
<i>Rabbit mAb p-VEGF</i>	<i>P-AKT (ser473)</i>	<i>c-jun</i>
<i>Phospho-P38</i>	<i>P-4EBP1</i>	<i>C-IAP1</i>
<i>Phospho-IkappaB-B(ser3)</i>	<i>Nucleolin</i>	<i>C-EBPalpha</i>
<i>PDI</i>	<i>NFKB1 p105/p50</i>	<i>BIP</i>
<i>PCKIT</i>	<i>NFKappaBP65</i>	<i>BIOTIN 10 pg</i>
<i>p38_MM6</i>	<i>Mouse a CD31</i>	<i>BIM</i>
<i>p27Kip1</i>	<i>MEK1/2</i>	<i>BID</i>
<i>P-Zap 70</i>	<i>MDM2 - 2</i>	<i>BCL-XL</i>
<i>P-VEGFR2 (y1175)</i>	<i>MCL1</i>	<i>BAX</i>
<i>P-TYR</i>	<i>junB</i>	<i>BAK (D4E4)</i>
<i>P-SyK</i>	<i>IkB-a(H-4)</i>	<i>BAD</i>
<i>P-Src family</i>	<i>IGF-IrB</i>	<i>ATF-6</i>

<i>P-S6 (ser235/236)</i>	<i>HSP90</i>	<i>ATF-4</i>
<i>P-RB (s807/811)</i>	<i>HSF-1</i>	<i>Anti-human IL-8</i>
<i>P-PLCy2</i>	<i>HIF1a</i>	<i>Anti-human IL-6</i>
<i>-p44/42 MPAK (Erk 1/2)</i>	<i>GST 60 pg</i>	<i>Anti-human IL-5</i>
<i>P-p38 MAPK</i>	<i>GAPDH</i>	<i>Anti-GM-CSF</i>
<i>P-MEK1/2</i>	<i>FOSB</i>	<i>ANTI JUN</i>
<i>p-MDM2 (s116)</i>	<i>FLG(C-15)</i>	<i>ANTI FOS</i>
<i>P-M-CSF</i>	<i>FGF-13</i>	<i>TI CHEMOKINE CXC</i>
<i>p-Lyn T</i>	<i>ERK2</i>	<i>anti biotin</i>
<i>p-ERK</i>	<i>EG5</i>	<i>Acetyl-P53</i>
<i>P-ERK (t202/y204)</i>	<i>E2F1</i>	<i>ABL1</i>
<i>α-Tubulina</i>		

Tabla 25. Lista de proteínas del subarray 2 del microarray 11.

<i>Listado de proteínas - Subarray 2</i>		
<i>αBCR1</i>	<i>p-ERK</i>	<i>PIDD</i>
<i>ABL1</i>	<i>p-PDGFR-B</i>	<i>PUMAA</i>
<i>Anti-human HLA-DR1</i>	<i>P-STAT3</i>	<i>Rabbit pAb p-BIK</i>
<i>BIOTIN 10 pg</i>	<i>P-VEGFR2 (Y1212)</i>	<i>Rb pAb Anti IFN g</i>
<i>CASPASA2-MM7</i>	<i>p16 INK41</i>	<i>Rb pAb anti IL-81</i>
<i>Mouse mAb p161</i>	<i>PDGFR-B</i>	<i>Rb pAb Anti TNF α</i>
<i>PhosphoHistona3(ser10)</i>	<i>SOD21</i>	

Tabla 26. Lista de proteínas del subarray 3 del microarray 11.

<i>Lista de proteínas - Subarray 3</i>		
<i>Acetyl-P53</i>	<i>E2F1</i>	<i>P-GAB1 (tyr 627)</i>
<i>AK1</i>	<i>EG5</i>	<i>p-Lyn T</i>
<i>anti biotin</i>	<i>Enolase1</i>	<i>P-M-CSF</i>
<i>ANTI CHEMOKINE CXCR2</i>	<i>ERK2</i>	<i>P-p38 MAPK</i>
<i>ANTI FOS</i>	<i>FGF-13</i>	<i>P-p44/42 MPAK (Erk 1/2)</i>
<i>Anti-GM-CSF</i>	<i>FLG(C-15)</i>	<i>p-PDGFR-B</i>
<i>Anti-human IL-21</i>	<i>FOSB</i>	<i>P-PLCy2</i>
<i>Anti-human IL-5</i>	<i>HCAM sc-9960</i>	<i>P-RB (s807/811)</i>
<i>Anti-human IL-6</i>	<i>HDAC6</i>	<i>P-Src family</i>
<i>Anti-human IL-8</i>	<i>HGF-α</i>	<i>P-STAT3</i>
<i>ATF-4</i>	<i>HIF1a</i>	<i>P-SyK</i>
<i>ATF-6</i>	<i>HSF-1</i>	<i>P-TYR</i>
<i>ATIII sc-271987</i>	<i>IGF-IrB</i>	<i>P-VEGFR2 (Y1212)</i>
<i>BAD</i>	<i>IκB-α(H-4)</i>	<i>P-Zap 70</i>
<i>BAK (D4E4)</i>	<i>IRF4</i>	<i>p21</i>
<i>BAX</i>	<i>junB</i>	<i>p27Kip1</i>
<i>BCL-2</i>	<i>MAX</i>	<i>p38_MM6</i>
<i>BCL-XL</i>	<i>MCL1</i>	<i>PDGFR-B</i>

<i>BID</i>	<i>MDM2 - 2</i>	<i>Phospho-IkappaB-B(ser32)</i>
<i>BIM</i>	<i>MDM2</i>	<i>Phospho-P38</i>
<i>BIOTIN 10 pg</i>	<i>mouse mAb CATHEPSIN 1</i>	<i>PhosphoHistona3(ser10)</i>
<i>BIP</i>	<i>N-FATc1</i>	<i>PIDD</i>
<i>C-EBPalpha (D56F10/XPCR)</i>	<i>NEUREGULIN-3</i>	<i>PIM-1</i>
<i>C-IAP1</i>	<i>NFKappaBP65</i>	<i>PUMAA</i>
<i>c-jun</i>	<i>NOXA</i>	<i>Rabbit mAb ACTINA(C-2)</i>
<i>C-MYC</i>	<i>OPN sc-21742</i>	<i>Rabbit pAb MCL1</i>
<i>CALNEXIN</i>	<i>P-4EBP1</i>	<i>Rabbit pAb p-BIK</i>
<i>CASPASA2</i>	<i>P-AKT (ser473)</i>	<i>Rb pAb anti CSF</i>
<i>CASPASA3</i>	<i>P-AKT (Substrate)</i>	<i>Rb pAb Anti IFN g</i>
<i>CASPASA7</i>	<i>P-AS160</i>	<i>Rb pAb anti IL-2</i>
<i>CASPASA9</i>	<i>P-BLNK</i>	<i>Rb pAb anti IL-4</i>
<i>CD 21 sc-13135</i>	<i>P-Btk</i>	<i>Rb pAb anti IL-6</i>
<i>CDC2 (POH1)</i>	<i>P-c-Cbl</i>	<i>Rb pAb Anti TNF a</i>
<i>Cleaved PARP (asp214)</i>	<i>P-CD19</i>	<i>SOCS-3</i>
<i>COX IV</i>	<i>P-CD79A</i>	<i>SOCS6</i>
<i>CyclinB1</i>	<i>P-CDC2</i>	<i>SQSTM1</i>
<i>VEGF Receptor 2</i>	<i>p-ERK</i>	<i>STAT3</i>

Tabla 27. Lista de proteínas del subarray 4, microarray 11.

<i>Lista de proteínas - Subarray 4</i>		
<i>a-Tubulina0</i>	<i>ERK2</i>	<i>P-CHK1 (ser345)</i>
<i>Acetyl-P53</i>	<i>FGF-13</i>	<i>P-CRAF (ser 338)</i>
<i>Anti Biotin 1/200</i>	<i>FLG(C-15)</i>	<i>P-ERK (t202/y204)</i>
<i>anti biotin</i>	<i>FOSB</i>	<i>p-Lyn T</i>
<i>ANTI CHEMOKINE</i>	<i>GAPDH</i>	<i>P-M-CSF</i>
<i>ANTI FOS</i>	<i>HGF-a</i>	<i>p-MDM2 (s116)</i>
<i>ANTI HALO1</i>	<i>HIF1a</i>	<i>P-MEK1/2</i>
<i>ANTI JUN</i>	<i>HLA-DR1</i>	<i>P-p38 MAPK</i>
<i>Anti-GM-CSF</i>	<i>HSF-1</i>	<i>P-p44/42 MPAK (Erk 1/2)</i>
<i>Anti-human IL-5</i>	<i>HSP40</i>	<i>P-PLCy2</i>
<i>Anti-human IL-6</i>	<i>HSP60</i>	<i>P-RB (s807/811)</i>
<i>Anti-human IL-8</i>	<i>HSP70</i>	<i>P-S6 (ser235/236)</i>
<i>ATF-4</i>	<i>HSP90</i>	<i>P-Src family</i>
<i>ATF-6</i>	<i>IGF-IrB</i>	<i>P-SyK</i>
<i>BAD</i>	<i>IkB-a(H-4)</i>	<i>P-VEGFR2 (y1175)</i>
<i>BAK (D4E4)</i>	<i>IRF4</i>	<i>P-Zap 70</i>
<i>BAX</i>	<i>junB</i>	<i>p27Kip1</i>
<i>BCL-2</i>	<i>MAX</i>	<i>p38_MM6</i>
<i>BCL-XL</i>	<i>MCL1</i>	<i>PARP</i>
<i>BID</i>	<i>MDM2 - 2</i>	<i>PCKIT</i>
<i>BIP</i>	<i>MDM2</i>	<i>PDI</i>

<i>BLC1</i>	<i>MEK1/2</i>	<i>Phospho-IkappaB-B</i>
<i>BRCA-1</i>	<i>Mouse Citocromo C1</i>	<i>Phospho-P38</i>
<i>BSA+BS3</i>	<i>NFKappaBP65</i>	<i>PU1</i>
<i>C-EBPalpha</i>	<i>NFKB1 p105/p50</i>	<i>Rabbit a Ki671</i>
<i>C-IAP1</i>	<i>NFKB2 p100/p52</i>	<i>Rabbit mAb p-VEGF</i>
<i>c-jun</i>	<i>Nucleolin</i>	<i>Rabbit pAb CASPASA 2</i>
<i>C-MYC</i>	<i>P-4EBP1</i>	<i>Rabbit VDAC mAb</i>
<i>CALNEXIN</i>	<i>P-AKT (ser473)</i>	<i>RAIDD</i>
<i>CASPASA2</i>	<i>P-AKT (Substrate)</i>	<i>RB</i>
<i>CASPASA3</i>	<i>p-AKT (T308)</i>	<i>Rb pAb anti CSF</i>
<i>CASPASA7</i>	<i>P-AS160</i>	<i>Rb pAb Anti IFN g</i>
<i>CASPASA8</i>	<i>P-ATR (ser428)</i>	<i>Rb pAb anti IL-2</i>
<i>CASPASA9</i>	<i>P-B-Catenin (T41/s45)</i>	<i>Rb pAb Anti TNF a</i>
<i>CDC2 (POH1)</i>	<i>P-BAD (ser112)</i>	<i>S6</i>
<i>CRBN</i>	<i>P-BLNK</i>	<i>SOCS6</i>
<i>CXCR4</i>	<i>P-BRCA1 (ser1524)</i>	<i>STAT3</i>
<i>CyclinB1</i>	<i>P-Btk</i>	<i>Survivin</i>
<i>CyclinD1</i>	<i>P-BTK</i>	<i>TGF-BETA</i>
<i>CyclinD2</i>	<i>P-c-Cbl</i>	<i>TRAP</i>
<i>CyclinD3</i>	<i>P-C-MYC</i>	<i>TUBERIN/TSC2</i>
<i>E2F1</i>	<i>P-CD19</i>	<i>VEGF Receptor 2</i>
<i>EG5</i>	<i>P-CD79A</i>	<i>BIOTIN 10 pg</i>
<i>P-CDC2</i>		

Tabla 28. Lista de proteínas del MIX del microarray 11.

<i>Lista de proteínas - MIX</i>		
<i>4EBP1</i>	<i>EG5</i>	<i>P-MEK1/2</i>
<i>α-Tubulina</i>	<i>FOSB</i>	<i>P-p38 MAPK</i>
<i>ABL1</i>	<i>GAPDH</i>	<i>P-p44/42 MPAK (Erk 1/2)</i>
<i>Acetyl-Histona3</i>	<i>HEXOKINASE II</i>	<i>P-PLCy2</i>
<i>Acetyl-Histona4</i>	<i>HIF1a</i>	<i>P-PRAS40 (t246)</i>
<i>Acetyl-P53</i>	<i>HLA-DR1</i>	<i>P-RB (s807/811)</i>
<i>AIOLOS(D1C1E)</i>	<i>HSF-1</i>	<i>P-S6 (ser235/236)</i>
<i>AKT</i>	<i>HSP40</i>	<i>P-Src family</i>
<i>AMPKα</i>	<i>HSP60</i>	<i>P-SyK</i>
<i>Anti Biotin 1/200</i>	<i>HSP70</i>	<i>P-VEGFR2 (y1175)</i>
<i>anti biotin</i>	<i>HSP90</i>	<i>P-VEGFR2 (Y1212)</i>
<i>ANTI CHEMOKINE</i>	<i>IKAROS</i>	<i>P-Zap 70</i>
<i>ANTI FOS</i>	<i>junB</i>	<i>p21Waf/Cip1</i>
<i>ANTI JUN</i>	<i>MAD-1</i>	<i>p27Kip1</i>
<i>Anti-GM-CSF</i>	<i>MCL1</i>	<i>p38</i>
<i>Anti-human IL-5</i>	<i>MDM2 - 2</i>	<i>P53</i>
<i>Anti-human IL-6</i>	<i>MEK1/2</i>	<i>PCKIT</i>

<i>Anti-human IL-8</i>	<i>NFKB1 p105/p50</i>	<i>PDI</i>
<i>BAD</i>	<i>NFKB2 p100/p52</i>	<i>Phospho-H2AX (ser139)</i>
<i>BAK (D4E4)</i>	<i>Nucleolin</i>	<i>Phospho-IkappaB-B(ser32)</i>
<i>BAX</i>	<i>P-4EBP1</i>	<i>Phospho-P38</i>
<i>BCL-XL</i>	<i>P-AKT (ser473)</i>	<i>PIM1(C93F2)</i>
<i>BID</i>	<i>P-AKT (Substrate)</i>	<i>PIM2</i>
<i>BIM</i>	<i>p-AKT (T308)</i>	<i>PIM3</i>
<i>BIOTIN 10 pg</i>	<i>P-AMPKa (T172)</i>	<i>PRAS40_MM6</i>
<i>BIP</i>	<i>P-AS160</i>	<i>PU1</i>
<i>BRCA-1</i>	<i>P-B-Catenin (T41/s45)</i>	<i>Rabbit mAb p-VEGF</i>
<i>C-EBPalpha</i>	<i>P-BLNK</i>	<i>Rabbit pAb p-BIK</i>
<i>C-IAP1</i>	<i>P-Btk</i>	<i>Rabbit VDAC mAb</i>
<i>c-jun</i>	<i>P-BTK</i>	<i>RAIDD</i>
<i>C-MYC</i>	<i>P-c-Cbl</i>	<i>RAS (D2C1)</i>
<i>CALNEXIN</i>	<i>P-C-MYC</i>	<i>RB</i>
<i>CASPASA2</i>	<i>P-CD19</i>	<i>Rb pAb anti CSF</i>
<i>CASPASA3</i>	<i>P-CD79A</i>	<i>Rb pAb Anti IFN g</i>
<i>CASPASA7</i>	<i>P-CDC2</i>	<i>Rb pAb anti IL-2</i>
<i>CASPASA9</i>	<i>P-CHK1 (ser345)</i>	<i>Rb pAb anti IL-4</i>
<i>CDC2 (POH1)</i>	<i>P-CHK2 (t68)</i>	<i>Rb pAb anti IL-6</i>
<i>COX IV</i>	<i>P-CRAF (ser 338)</i>	<i>Rb pAb Anti TNF a</i>
<i>CRBN</i>	<i>P-ERK (t202/y204)</i>	<i>S6</i>
<i>CXCR4</i>	<i>p-ERK</i>	<i>SOD21</i>
<i>CyclinD1</i>	<i>P-GSK3B</i>	<i>TGF-BETA</i>
<i>CyclinD2</i>	<i>p-Lyn T</i>	<i>TRAP</i>
<i>CyclinD3</i>	<i>P-M-CSF</i>	<i>TUBERIN/TSC2</i>
<i>E2F1</i>	<i>p-MDM2 (s116)</i>	<i>VEGF Receptor 2</i>

Tabla 29. Lista de proteínas del subarray 2 del microarray 22.

<i>Lista de proteínas - Subarray 2</i>		
<i>ATF-4</i>	<i>IkB-a(H-4)</i>	<i>P-STAT3</i>
<i>ATF-6</i>	<i>IRF4</i>	<i>P-TYR</i>
<i>ATIII sc-271987</i>	<i>MAD-1</i>	<i>p21</i>
<i>BCL-2</i>	<i>MAX</i>	<i>PDGFR-B</i>
<i>CASPASA2</i>	<i>MCL1</i>	<i>PhosphoHistona3(ser10)</i>
<i>CD 21 sc-13135</i>	<i>MDM2</i>	<i>PIDD</i>
<i>CyclinB1</i>	<i>ouse mAb CATHEPSIN</i>	<i>PIM-1</i>
<i>ERK2</i>	<i>N-FATc1</i>	<i>PUMAA</i>
<i>FGF-13</i>	<i>NEUREGULIN-3</i>	<i>Rabbit mAb ACTINA(C-2)</i>
<i>FLG(C-15)</i>	<i>NFKappaBP65</i>	<i>Rabbit pAb MCL1</i>
<i>HCAM sc-9960</i>	<i>NOXA</i>	<i>SOCS-3</i>
<i>HDAC6</i>	<i>OPN sc-21742</i>	<i>SOCS6</i>
<i>HGF-a</i>	<i>P-GAB1 (tyr 627)</i>	<i>SQSTM1</i>
<i>IGF-IrB</i>	<i>p-PDGFR-B</i>	<i>STAT3</i>

Tabla 30. Lista de proteínas del subarray 3 del microarray 22.

<i>Lista de proteínas - Subarray 3</i>		
<i>4EBP1</i>	<i>FLG(C-15)</i>	<i>P-p38 MAPK</i>
<i>a-Tubulina0</i>	<i>FOSB</i>	<i>P-p44/42 MPAK (Erk 1/2)</i>
<i>ABL1</i>	<i>GAPDH</i>	<i>p-PDGFR-B</i>
<i>Acetyl-Histona3</i>	<i>HCAM sc-9960</i>	<i>P-PLCy2</i>
<i>Acetyl-Histona4</i>	<i>HDAC6</i>	<i>P-RB (s807/811)</i>
<i>Acetyl-P53</i>	<i>HEXOKINASE II</i>	<i>P-S6 (ser235/236)</i>
<i>AIF</i>	<i>HGF-a</i>	<i>P-Src family</i>
<i>AKT</i>	<i>HIF1a</i>	<i>P-STAT3</i>
<i>Anti Biotin 1/200</i>	<i>HLA-DR1</i>	<i>P-SyK</i>
<i>anti biotin</i>	<i>HSF-1</i>	<i>P-TYR</i>
<i>ANTI CHEMOKINE</i>	<i>HSP40</i>	<i>P-VEGFR2 (Y1212)</i>
<i>ANTI FOS</i>	<i>IGF-IrB</i>	<i>P-Zap 70</i>
<i>Anti-GM-CSF</i>	<i>IkB-a(H-4)</i>	<i>p21</i>
<i>Anti-human IL-21</i>	<i>IRF4</i>	<i>p21Waf/Cip1</i>
<i>Anti-human IL-5</i>	<i>junB</i>	<i>p27Kip1</i>
<i>Anti-human IL-6</i>	<i>MAX</i>	<i>p38_MM6</i>
<i>Anti-human IL-8</i>	<i>MCL1</i>	<i>PCKIT</i>
<i>ATF-4</i>	<i>MCL1</i>	<i>PDGFR-B</i>
<i>ATF-6</i>	<i>MDM2 - 2</i>	<i>PDI</i>
<i>ATIII sc-271987</i>	<i>MDM2</i>	<i>Phospho-H2AX (ser139)</i>
<i>BAD</i>	<i>Mouse Citocromo C1</i>	<i>Phospho-IkappaB-B(ser32)</i>
<i>BAK (D4E4)</i>	<i>Mouse mAb CATHEPSIN K</i>	<i>Phospho-P38</i>
<i>BCL-2</i>	<i>N-FATc1</i>	<i>PhosphoHistona3(ser10)</i>
<i>BCL-XL</i>	<i>NEUREGULIN-3</i>	<i>PIDD</i>
<i>BIM</i>	<i>NFKappaBP65</i>	<i>PIM-1</i>
<i>BIOTIN 10 pg</i>	<i>NOXA</i>	<i>PIM3</i>
<i>BIP</i>	<i>OPN sc-21742</i>	<i>PUI</i>
<i>-EBPalpha (D56F10/XPC)</i>	<i>P-4EBP1</i>	<i>PUMAA</i>
<i>c-jun</i>	<i>P-AKT (ser473)</i>	<i>Rabbit mAb ACTINA(C-2)</i>
<i>C-MYC</i>	<i>P-AKT (Substrate)</i>	<i>Rabbit pAb MCL1</i>
<i>CALNEXIN</i>	<i>p-AKT (T308)</i>	<i>Rabbit pAb p-BIK</i>
<i>CASPASA2</i>	<i>P-AS160</i>	<i>RAIDD</i>
<i>CASPASA3</i>	<i>P-ATR (ser428)</i>	<i>RB</i>
<i>CASPASA7</i>	<i>P-BLNK</i>	<i>Rb pAb anti CSF</i>
<i>CASPASA9</i>	<i>P-BRCA1 (ser1524)</i>	<i>Rb pAb Anti IFN g</i>
<i>CD 21 sc-13135</i>	<i>P-Btk</i>	<i>Rb pAb anti IL-2</i>
<i>CDC2 (POH1)</i>	<i>P-c-Cbl</i>	<i>Rb pAb anti IL-4</i>
<i>CDC25A</i>	<i>P-C-MYC</i>	<i>Rb pAb anti IL-6</i>
<i>Cleaved PARP (asp214)</i>	<i>P-CD19</i>	<i>Rb pAb Anti TNF a</i>
<i>COX IV</i>	<i>P-CD79A</i>	<i>S6</i>
<i>CyclinB1</i>	<i>P-CDC2</i>	<i>SOCS-3</i>

<i>CyclinD2</i>	<i>P-CHK2 (t68)</i>	<i>SOCS6</i>
<i>E2F1</i>	<i>p-ERK</i>	<i>SOD21</i>
<i>EG5</i>	<i>P-GAB1 (tyr 627)</i>	<i>SQSTM1</i>
<i>Enolase1</i>	<i>p-Lyn T</i>	<i>STAT3</i>
<i>ERK2</i>	<i>P-M-CSF</i>	<i>TGF-BETA</i>
<i>FGF-13</i>	<i>p-MDM2 (s116)</i>	<i>TUBERIN/TSC2</i>
<i>P-MEK1/2</i>	<i>VEGF Receptor 2</i>	

Tabla 31. Lista de proteínas del subarray 4 del microarray 22.

<i>Lista de proteínas - Subarray 4</i>		
<i>4EBP1</i>	<i>GAPDH</i>	<i>p-PDGFR-B</i>
<i>Acetyl-P53</i>	<i>HCAM sc-9960</i>	<i>P-PLCy2</i>
<i>anti biotin-MM2</i>	<i>HDAC6</i>	<i>P-STAT3</i>
<i>ANTI FOS</i>	<i>HGF-a</i>	<i>P-SyK</i>
<i>Anti-human IL-6</i>	<i>HSF-1</i>	<i>P-TYR</i>
<i>ATF-4</i>	<i>HSP60</i>	<i>P-Zap 70</i>
<i>ATF-6</i>	<i>IGF-IrB</i>	<i>p21</i>
<i>ATIII sc-271987</i>	<i>IkB-a(H-4)</i>	<i>p27Kip1</i>
<i>BAK (D4E4)</i>	<i>IRF4</i>	<i>p38_MM6</i>
<i>BAX</i>	<i>junB</i>	<i>PDGFR-B</i>
<i>BCL-2</i>	<i>MAX</i>	<i>Phospho-IkappaB-B(ser32)</i>
<i>BCL-XL</i>	<i>MCL1</i>	<i>Phospho-P38</i>
<i>BID</i>	<i>MDM2</i>	<i>PhosphoHistona3(ser10)</i>
<i>BIM</i>	<i>ouse mAb CATHEPSIN</i>	<i>PIDD</i>
<i>BIOTIN 10 pg</i>	<i>N-FATc1</i>	<i>PIM-1</i>
<i>BIP</i>	<i>NEUREGULIN-3</i>	<i>PUMAA</i>
<i>C-EBPalpha</i>	<i>NFKappaBP65</i>	<i>Rabbit mAb ACTINA(C-2)</i>
<i>C-IAP1</i>	<i>NOXA</i>	<i>Rabbit mAb p-VEGF</i>
<i>CALNEXIN</i>	<i>OPN sc-21742</i>	<i>Rabbit pAb MCL1</i>
<i>CASPASA2</i>	<i>P-4EBP1</i>	<i>Rabbit VDAC mAb</i>
<i>CASPASA3</i>	<i>P-AKT (ser473)</i>	<i>RAIDD</i>
<i>CASPASA7</i>	<i>P-AKT (Substrate)</i>	<i>Rb pAb anti CSF</i>
<i>CD 21 sc-13135</i>	<i>P-AS160</i>	<i>Rb pAb Anti IFN g</i>
<i>CDC2 (POH1)</i>	<i>P-Btk</i>	<i>Rb pAb anti IL-2</i>
<i>CyclinB1</i>	<i>P-c-Cbl</i>	<i>Rb pAb anti IL-4</i>
<i>E2F1</i>	<i>P-CD19</i>	<i>Rb pAb anti IL-6</i>
<i>EG5</i>	<i>P-CD79A</i>	<i>Rb pAb Anti TNF a</i>
<i>ERK2</i>	<i>p-ERK</i>	<i>SOCS-3</i>
<i>FGF-13</i>	<i>P-GAB1 (tyr 627)</i>	<i>SOCS6</i>
<i>FLG(C-15)</i>	<i>p-Lyn T</i>	<i>SOD21</i>
<i>FOSB</i>	<i>P-M-CSF</i>	<i>SQSTM1</i>
<i>P-p38 MAPK</i>	<i>STAT3</i>	

Tabla 32. Lista de proteínas del MIX, microarray 22.

<i>Lista de proteínas - MIX</i>		
<i>ATF-4</i>	<i>IGF-IrB</i>	<i>P-STAT3</i>
<i>ATF-6</i>	<i>IkB-a(H-4)</i>	<i>P-TYR</i>
<i>ATIII sc-271987</i>	<i>IRF4</i>	<i>p21</i>
<i>BCL-2</i>	<i>MAX</i>	<i>PDGFR-B</i>
<i>BIOTIN 10 pg</i>	<i>MCL1</i>	<i>PhosphoHistona3(ser10)</i>
<i>CASPASA2</i>	<i>MDM2</i>	<i>PIDD</i>
<i>CD 21 sc-13135</i>	<i>se mAb CATHEPSI</i>	<i>PIM-1</i>
<i>CyclinB1</i>	<i>N-FATc1</i>	<i>PUMa_a</i>
<i>ERK2</i>	<i>NEUREGULIN-3</i>	<i>Rabbit mAb ACTINA</i>
<i>FGF-13</i>	<i>NFKappaBP65</i>	<i>Rabbit pAb MCL1</i>
<i>HCAM sc-9960</i>	<i>NOXA</i>	<i>SOCS-3</i>
<i>HDAC6</i>	<i>OPN sc-21742</i>	<i>SOCS6</i>
<i>HGF-a</i>	<i>P-GAB1 (tyr 627)</i>	<i>SQSTM1</i>
<i>p-PDGFR-B</i>	<i>STAT3</i>	

Tabla 33. Lista de proteínas del subarray 1 del microarray 8.

<i>Lista de proteínas - Subarray 1</i>		
<i>4EBP1</i>	<i>IRF4</i>	<i>STAT3</i>
<i>Acetyl-Histona3</i>	<i>NOXA</i>	<i>SQSTM1</i>
<i>Acetyl-Histona4</i>	<i>P-ATR (ser428)</i>	<i>HGF-a</i>
<i>AKT</i>	<i>P-CHK2 (t68)</i>	<i>RAS (D2C1)</i>
<i>ATF-6</i>	<i>PIM-1</i>	<i>BRCA-1</i>
<i>BCL-2</i>	<i>PRAS40</i>	

Tabla 34. Lista de proteínas del subarray 2 del microarray 8.

<i>Lista de proteínas - Subarray 2</i>
<i>CASPASA2</i>

Tabla 35. Lista de proteínas del subarray 3 del microarray 8.

<i>Lista de proteínas - Subarray 3</i>		
<i>AKT</i>	<i>P-CD19</i>	<i>P-Btk</i>
<i>AMPKa</i>	<i>p-Lyn T</i>	<i>P-c-Cbl</i>
<i>anti biotin-MM2</i>	<i>P-M-CSF</i>	<i>SOCS-3</i>
<i>BAX</i>	<i>P-p38 MAPK</i>	<i>P-BLNK</i>
<i>BID</i>	<i>P-PLCy2</i>	<i>Rb pAb Anti TNF a</i>
<i>BIOTIN 10 pg</i>	<i>P-RB (s807/811)</i>	<i>Mouse mAb CATHEPSIN K</i>
<i>BIP</i>	<i>P-SyK</i>	<i>Rb pAb anti IL-6</i>
<i>CASPASA2</i>	<i>p27Kip1</i>	<i>MAX</i>
<i>CASPASA3</i>	<i>Phospho-IkappaB-B(ser32)</i>	<i>Rb pAb anti IL-4</i>
<i>CASPASA7</i>	<i>Phospho-P38</i>	<i>junB</i>
<i>CDC2 (POH1)</i>	<i>PhosphoHistona3(ser10)</i>	<i>Rb pAb Anti IFN g</i>
<i>E2F1</i>	<i>PIM-1</i>	<i>GAPDH</i>

Tabla 36. Lista de proteínas del subarray 4 del microarray 8.

<i>Lista de proteínas - Subarray 4</i>		
<i>CASPASA2</i>		
<i>CDK4</i>		

Tabla 37. Lista de proteínas del subarray 5 del microarray 8.

<i>Lista de proteínas - Subarray 5</i>		
<i>aBCR</i>	<i>p38</i>	<i>P-CHK2 (t68)</i>
<i>ABL</i>	<i>PDGFR-B</i>	<i>p-PDGFR-B</i>
<i>ATF-6</i>	<i>Rb pAb anti CSF</i>	<i>P-Zap 70</i>
<i>BAX</i>	<i>2b pAb Anti IFN ξ</i>	<i>p21</i>
<i>BCL-2</i>	<i>Rb pAb anti IL-2</i>	<i>p27Kip1</i>
<i>BIOTIN 10 pg</i>	<i>CASPASA2</i>	<i>P-CHK1 (ser345)</i>

Tabla 38. Lista de proteínas del subarray 6 del microarray 12.

<i>Lista de proteínas - Subarray 6</i>		
<i>4EBP1</i>	<i>HLA-DR1</i>	<i>P-STAT3</i>
<i>Acetyl-Histona3</i>	<i>HSP60</i>	<i>P-TYR</i>
<i>Acetyl-Histona4</i>	<i>HSP70</i>	<i>p21Waf/Cip1</i>
<i>AIOLOS(DIC1E)</i>	<i>IKAROS</i>	<i>Phospho-p53 (ser15)</i>
<i>AK1</i>	<i>Integrinalpha6</i>	<i>PhosphoHistona3(ser10)</i>
<i>AKT</i>	<i>IRF4</i>	<i>PIDD</i>
<i>AMPKa</i>	<i>MAD-1</i>	<i>PIM-1</i>
<i>Anti Biotin 1/200</i>	<i>MAX</i>	<i>PIM1(C93F2)</i>
<i>ATIII sc-271987</i>	<i>MCL1</i>	<i>PRAS40_MM6</i>
<i>BCL-2</i>	<i>Mouse mAb CATHEPSIN K</i>	<i>PUMAA</i>
<i>BIOTIN 10 pg</i>	<i>NEUREGULIN-3</i>	<i>Rabbit mAb ACTINA(C-2)</i>
<i>BRCA-1</i>	<i>NOXA</i>	<i>Rabbit pAb MCL1</i>
<i>BSA+BS3</i>	<i>P-AMPKa (T172)</i>	<i>Rabbit pAb p-BIK</i>
<i>CASPASA2</i>	<i>P-BRCA1 (ser1524)</i>	<i>RAIDD</i>
<i>CD 21 sc-13135</i>	<i>P-CHK1 (ser345)</i>	<i>RAS (D2C1)</i>
<i>CD19 Clone HIB192</i>	<i>p-ERK</i>	<i>SOCS-3</i>
<i>CyclinB1</i>	<i>P-GAB1 (tyr 627)</i>	<i>SOCS6</i>
<i>HDAC6</i>	<i>p-PDGFR-B</i>	<i>SQSTM1</i>
<i>P-PRAS40 (t246)</i>	<i>STAT3</i>	

Tabla 39. Lista de proteínas del subarray 7 del microarray 12.

<i>Lista de proteínas - Subarray 7</i>		
<i>Acetyl-Histona3</i>	<i>ERK2</i>	<i>P-CHK2 (t68)</i>
<i>Acetyl-Histona4</i>	<i>FGF-13</i>	<i>p-ERK</i>
<i>AIF</i>	<i>FLG(C-15)</i>	<i>P-GAB1 (tyr 627)</i>
<i>AK1</i>	<i>GLUT1</i>	<i>P-p38 MAPK</i>
<i>AKT</i>	<i>HCAM sc-9960</i>	<i>p-PDGFR-B</i>

<i>anti biotin</i>	<i>HDAC6</i>	<i>P-STAT3</i>
<i>Anti-GM-CSF</i>	<i>HEXOKINASE II</i>	<i>P-TYR</i>
<i>Anti-human IL-21</i>	<i>HGF-a</i>	<i>P-VEGFR2 (Y1212)</i>
<i>Anti-human IL-6</i>	<i>HLA-DR1</i>	<i>PhosphoHistona3</i>
<i>ATF-4</i>	<i>HSF-1</i>	<i>PIM-1</i>
<i>ATF-6</i>	<i>HSP40</i>	<i>PUMAA</i>
<i>ATIII sc-271987</i>	<i>HSP60</i>	<i>Rabbit mAb ACTINA</i>
<i>BIOTIN 10 pg</i>	<i>Integrinalpha6</i>	<i>Rabbit pAb MCL1</i>
<i>BRCA-1</i>	<i>IRF4</i>	<i>Rabbit pAb p-BIK</i>
<i>C-EBPalpha</i>	<i>LDHA</i>	<i>RAIDD</i>
<i>CASPASA12</i>	<i>MAD-1</i>	<i>Rb pAb Anti IFN g</i>
<i>CASPASA2</i>	<i>MAX</i>	<i>Rb pAb anti IL-2</i>
<i>CD 21 sc-13135</i>	<i>MDM2 - 2</i>	<i>Rb pAb anti IL-4</i>
<i>CDC2 (POH1)</i>	<i>MDM2</i>	<i>Rb pAb anti IL-6</i>
<i>CDC25A</i>	<i>Mouse mAb CATHEPSIN K</i>	<i>Rb pAb Anti TNF a</i>
<i>Cleaved PARP (asp214)</i>	<i>N-FATc1</i>	<i>SOCS-3</i>
<i>COX IV</i>	<i>NEUREGULIN-3</i>	<i>SOCS6</i>
<i>E2F1</i>	<i>NOXA</i>	<i>SQSTM1</i>
<i>EG5</i>	<i>P-4EBP1</i>	<i>STAT3</i>
<i>Enolase1</i>	<i>P-AKT (ser473)</i>	<i>VEGF Receptor 2</i>

Tabla 40. Lista de proteínas del subarray 8 del microarray 12.

<i>Lista de proteínas - Subarray 8</i>		
<i>ATF-4</i>	<i>HGF-a</i>	<i>P-TYR</i>
<i>ATF-6</i>	<i>IGF-IrB</i>	<i>p21</i>
<i>ATIII sc-271987</i>	<i>IkB-a(H-4)</i>	<i>PDGFR-B</i>
<i>BCL-2</i>	<i>IRF4</i>	<i>PhosphoHistona3</i>
<i>BIOTIN 10 pg</i>	<i>MAX</i>	<i>PIDD</i>
<i>CASPASA2</i>	<i>MCL1</i>	<i>PUMAA</i>
<i>CD 21 sc-13135</i>	<i>Mouse mAb CATHEPSIN K</i>	<i>Rabbit mAb ACTINA</i>
<i>CyclinB1</i>	<i>N-FATc1</i>	<i>Rabbit pAb MCL1</i>
<i>ERK2</i>	<i>NEUREGULIN-3</i>	<i>SOCS-3</i>
<i>FGF-13</i>	<i>NFKappaBP65</i>	<i>SOCS6</i>
<i>FLG(C-15)</i>	<i>NOXA</i>	<i>SQSTM1</i>
<i>HCAM sc-9960</i>	<i>OPN sc-21742</i>	<i>STAT3</i>
<i>P-STAT3</i>		

Tabla 41. Lista de proteínas del subarray 9 del microarray 12.

<i>Lista de proteínas - Subarray 9</i>		
<i>Acetyl-Histona3</i>	<i>Rabbit pAb MCL1</i>	<i>HEXOKINASE II</i>
<i>AIF</i>	<i>SOCS6</i>	<i>HGF-a</i>
<i>GLUT1</i>	<i>BIOTIN 10 pg</i>	

Tabla 42. Lista de proteínas del MIX I del microarray 12.

<i>Lista de proteínas - MIX I</i>		
<i>a-Tubulina</i>	<i>E2F1</i>	<i>P-AKT (Substrate)</i>
<i>AKT</i>	<i>EG5</i>	<i>P-B-Catenin (T41/s45)</i>
<i>anti biotin</i>	<i>Enolase1</i>	<i>P-BTK</i>
<i>ANTI CHEMOKINE</i>	<i>ERK2</i>	<i>P-C-MYC</i>
<i>ANTI FOS</i>	<i>FGF-13</i>	<i>P-CDC2</i>
<i>Anti-GM-CSF</i>	<i>FLG(C-15)</i>	<i>P-CRAF (ser 338)</i>
<i>Anti-human IL-5</i>	<i>GAPDH</i>	<i>P-ERK (t202/y204)</i>
<i>Anti-human IL-6</i>	<i>HGF-a</i>	<i>P-MEK1/2</i>
<i>ATF-6</i>	<i>IGF-IrB</i>	<i>P-RB (s807/811)</i>
<i>BAD</i>	<i>IkB-a(H-4)</i>	<i>P-S6 (ser235/236)</i>
<i>BCL-2</i>	<i>Integrinalpha6</i>	<i>P-STAT3</i>
<i>BIOTIN 10 pg</i>	<i>IRF4</i>	<i>P-VEGFR2 (y1175)</i>
<i>EBPalpha (D56F10/XPC</i>	<i>MAX</i>	<i>PCKIT</i>
<i>C-MYC</i>	<i>MCL1</i>	<i>PU1</i>
<i>CALNEXIN</i>	<i>MDM2 - 2</i>	<i>Rabbit VDAC mAb</i>
<i>CASPASA2</i>	<i>MDM2</i>	<i>RAIDD-MM4</i>
<i>CASPASA9</i>	<i>MEK1/2</i>	<i>Rb pAb anti CSF</i>
<i>CDC2 (POH1)</i>	<i>NFKappaBP65</i>	<i>Rb pAb Anti IFN g</i>
<i>CRBN-MM9</i>	<i>NOXA</i>	<i>Rb pAb Anti TNF a</i>
<i>CXCR4</i>	<i>Nucleolin</i>	<i>S6</i>
<i>CyclinB1</i>	<i>P-4EBP1</i>	<i>TUBERIN/TSC2</i>
<i>P-AKT (ser473)</i>	<i>VEGF Receptor 2</i>	

Tabla 43. Lista de proteínas del subarray 10 del microarray 16.

<i>Lista de proteínas - Subarray 10</i>
<i>Rabbit pAb p-BIK</i>
<i>BIOTIN 10 pg</i>

Tabla 44. Lista de proteínas del subarray 11 del microarray 16.

<i>Lista de proteínas - Subarray 11</i>		
<i>4EBP1</i>	<i>P-GABI (tyr 627)</i>	<i>HSP70</i>
<i>AKT</i>	<i>PRAS40</i>	<i>NFKB2 p100/p52</i>
<i>Anti-human IL-5-MM1</i>	<i>Rb pAb anti IL-8</i>	<i>Nucleolin</i>
<i>Anti-human IL-6-MM1</i>	<i>BIOTIN 10 pg</i>	<i>p-AKT (T308)</i>
<i>CASPASA2-MM7</i>	<i>p-ERK</i>	

Tabla 45. Lista de proteínas del subarray 12 del microarray 16.

<i>Lista de proteínas - Subarray 12</i>		
<i>4EBP1</i>	<i>GAPDH</i>	<i>p-MDM2 (s116)</i>
<i>aBCR1</i>	<i>HCAM sc-9960</i>	<i>P-MEK1/2</i>
<i>ABL1</i>	<i>HDAC6</i>	<i>p-PDGFR-B</i>

<i>AIOLOS(DIC1E)</i>	<i>HGF-a</i>	<i>P-PRAS40 (t246)</i>
<i>AMPKa</i>	<i>HLA-DR1</i>	<i>P-STAT3</i>
<i>ANTI JUN</i>	<i>HSP40</i>	<i>P-TYR</i>
<i>Anti-human HLA-DR1</i>	<i>HSP60</i>	<i>p21</i>
<i>Anti-human IL-5</i>	<i>HSP90</i>	<i>P53</i>
<i>Anti-human IL-6</i>	<i>IGF-IrB</i>	<i>PDGFR-B</i>
<i>Anti-human IL-8</i>	<i>IKAROS</i>	<i>PDI</i>
<i>ATF-4</i>	<i>IkB-a(H-4)</i>	<i>Phospho-H2AX (ser139)</i>
<i>ATF-6</i>	<i>IRF4</i>	<i>PhosphoHistona3(ser10)</i>
<i>ATIII sc-271987</i>	<i>MAX</i>	<i>PIDD</i>
<i>BCL-2</i>	<i>MCL1</i>	<i>PIM-1</i>
<i>BIOTIN 10 pg</i>	<i>MCL1</i>	<i>PIM1(C93F2)</i>
<i>BRCA-1</i>	<i>MDM2</i>	<i>PIM3</i>
<i>C-EBPalpha</i>	<i>MEK1/2</i>	<i>PU1</i>
<i>C-MYC</i>	<i>Mouse mAb CATHEPSIN K</i>	<i>PUMAA</i>
<i>CALNEXIN</i>	<i>N-FATc1</i>	<i>Rabbit mAb ACTINA</i>
<i>CASPASA2</i>	<i>NEUREGULIN-3</i>	<i>Rabbit pAb MCL1</i>
<i>CD 21 sc-13135</i>	<i>NFKappaBP65</i>	<i>Rabbit VDAC mAb</i>
<i>CRBN</i>	<i>NFKB2 p100/p52</i>	<i>RAIDD</i>
<i>CyclinB1</i>	<i>NOXA</i>	<i>RB</i>
<i>EG5</i>	<i>OPN sc-21742</i>	<i>Rb pAb anti IL-81</i>
<i>ERK2</i>	<i>p-AKT (T308)</i>	<i>S6</i>
<i>FGF-13</i>	<i>P-CRAF (ser 338)</i>	<i>SOCS-3</i>
<i>FLG(C-15)</i>	<i>p-ERK</i>	<i>SOCS6</i>
<i>STAT3</i>	<i>P-GAB1 (tyr 627)</i>	<i>SOD21</i>
<i>P-GSK3B</i>	<i>SQSTM1</i>	

Tabla 46. Lista de proteínas del subarray 13 del microarray 16.

<i>Lista de proteínas - Subarray 13</i>		
<i>aBCR</i>	<i>HSP60</i>	<i>P-STAT3</i>
<i>ABL</i>	<i>HSP90</i>	<i>P-TYR</i>
<i>AIOLOS(DIC1E)</i>	<i>IKAROS</i>	<i>p21</i>
<i>Anti-human HLA-DR</i>	<i>IkB-a(H-4)</i>	<i>P53</i>
<i>Anti-human IL-6</i>	<i>MAX</i>	<i>PDGFR-B</i>
<i>ATF-4</i>	<i>MCL1</i>	<i>PhosphoHistona3(ser10)</i>
<i>ATF-6</i>	<i>MDM2</i>	<i>PIDD</i>
<i>BLC</i>	<i>Mouse mAb p16</i>	<i>PRAS40_MM6</i>
<i>CASPASA2</i>	<i>N-FATc1</i>	<i>PUMAA</i>
<i>CD19 Clone HIB192</i>	<i>NEUREGULIN-3</i>	<i>RAIDD</i>
<i>CyclinB1</i>	<i>Nucleolin</i>	<i>Rb pAb anti IL-8</i>
<i>EG5</i>	<i>p-AKT (T308)</i>	<i>SOCS-3</i>
<i>ERK2</i>	<i>P-AMPKa (T172)</i>	<i>SOD2</i>
<i>FLG(C-15)</i>	<i>p-ERK</i>	<i>SQSTM1</i>
<i>HDAC6</i>	<i>P-GAB1 (tyr 627)</i>	<i>BIOTIN 10 pg</i>

HLA-DR *p-PDGFR-B* *P-PRAS40 (t246)*
HSP40

Tabla 47. Lista de proteínas del MIX II del microarray 16.

<i>Lista de proteínas - MIX II</i>		
<i>CASPASA2</i>	<i>P-VEGFR2 (Y1212)</i>	<i>Rabbit pAb p-BIK</i>
<i>COX IV</i>	<i>Rabbit pAb MCL1</i>	<i>BIOTIN 10 pg</i>

Tabla 48. Lista de proteínas del subarray 14 del microarray 18.

<i>Lista de proteínas - Subarray 14</i>
<i>BIOTIN 10 pg</i>

Tabla 49. Lista de proteínas del subarray 15 del microarray 18.

<i>Lista de proteínas - Subarray 15</i>		
<i>aBCR</i>	<i>GLUT1</i>	<i>Anti-human IL-6</i>
<i>AK1</i>	<i>IGF-IrB</i>	<i>BIOTIN 10 pg</i>
<i>Anti-human IL-5</i>	<i>p-AKT (T308)</i>	<i>CASPASA2</i>

Tabla 50. Lista de proteínas del subarray 16 del microarray 18.

<i>Lista de proteínas - Subarray 16</i>		
<i>4EBP1</i>	<i>P-TYR</i>	<i>ERK2</i>
<i>a-Tubulina0</i>	<i>P-VEGFR2 (y1175)</i>	<i>FGF-13</i>
<i>AK1</i>	<i>p21</i>	<i>FLG(C-15)</i>
<i>anti biotin-MM2</i>	<i>PCKIT</i>	<i>HDAC6</i>
<i>ANTI CHEMOKINE</i>	<i>PDGFR-B</i>	<i>HGF-a</i>
<i>ANTI FOS</i>	<i>PhosphoHistona3</i>	<i>HIF1a</i>
<i>ANTI JUN-MM8</i>	<i>PIDD</i>	<i>IGF-IrB</i>
<i>Anti-GM-CSF</i>	<i>PIM-1</i>	<i>IkB-a(H-4)</i>
<i>Anti-human IL-5</i>	<i>PIM1(C93F2)</i>	<i>Integrinalpha6</i>
<i>Anti-human IL-6</i>	<i>PU1</i>	<i>IRF4</i>
<i>Anti-human IL-8</i>	<i>PUMAA</i>	<i>MAX</i>
<i>ATF-4</i>	<i>abbit mAb ACTINA(C-2)</i>	<i>MCL1</i>
<i>ATF-6</i>	<i>RAIDD</i>	<i>MDM2 - 2</i>
<i>BCL-2</i>	<i>Rb pAb Anti IFN g</i>	<i>MDM2</i>
<i>BIOTIN 10 pg</i>	<i>SOCS-3</i>	<i>N-FATc1</i>
<i>CASPASA2</i>	<i>SOCS6</i>	<i>NEUREGULIN-3</i>
<i>CD19 Clone HIB192</i>	<i>SQSTM1</i>	<i>NFKappaBP65</i>
<i>CRBN-MM9</i>	<i>STAT3</i>	<i>NOXA</i>
<i>CXCR4-MM8</i>	<i>VEGF Receptor 2</i>	<i>p-ERK</i>
<i>CyclinB1</i>	<i>p-PDGFR-B</i>	<i>P-GAB1 (tyr 627)</i>
<i>P-STAT3</i>		

Tabla 51. Lista de proteínas del subarray 17 del microarray 18.

<i>Lista de proteínas - Subarray 17</i>		
<i>4EBP1</i>	<i>IkB-a(H-4)</i>	<i>CASPASA2</i>
<i>anti biotin</i>	<i>P-AMPKa (T172)</i>	<i>HDAC6</i>
<i>ANTI CHEMOKINE</i>	<i>p-ERK-MM4</i>	<i>IGF-IrB</i>
<i>ANTI FOS</i>	<i>P-STAT3</i>	<i>STAT3</i>
<i>Anti-human IL-5</i>	<i>PDGFR-B</i>	<i>BIOTIN 10 pg</i>
<i>Anti-human IL-6</i>	<i>RAIDD-MM4</i>	<i>SQSTM1</i>
<i>Anti-human IL-8</i>	<i>Rb pAb Anti IFN g</i>	<i>ATF-6</i>
<i>ATF-4</i>	<i>Rb pAb Anti TNF a</i>	

Tabla 52. Lista de proteínas del MIX III del microarray 18.

<i>Lista de proteínas - MIX III</i>		
<i>a-Tubulina</i>	<i>P-STAT3</i>	<i>ERK2</i>
<i>AK1</i>	<i>PDGFR-B</i>	<i>FGF-13</i>
<i>anti biotin</i>	<i>PIM-1</i>	<i>FLG(C-15)</i>
<i>ANTI CHEMOKINE</i>	<i>Rabbit mAb ACTINA(C</i>	<i>HDAC6</i>
<i>ANTI FOS</i>	<i>Rabbit VDAC mAb</i>	<i>HGF-a</i>
<i>ANTI JUN</i>	<i>RAIDD-MM4</i>	<i>HIF1a</i>
<i>Anti-GM-CSF</i>	<i>Rb pAb anti CSF</i>	<i>IGF-IrB</i>
<i>Anti-human IL-5</i>	<i>Rb pAb Anti IFN g</i>	<i>IkB-a(H-4)</i>
<i>Anti-human IL-6</i>	<i>Rb pAb anti IL-4</i>	<i>MAX</i>
<i>Anti-human IL-8</i>	<i>Rb pAb anti IL-6</i>	<i>MDM2 - 2</i>
<i>ATF-4</i>	<i>Rb pAb Anti TNF a</i>	<i>MDM2</i>
<i>ATF-6</i>	<i>S6</i>	<i>MEK1/2</i>
<i>BCL-2</i>	<i>SOD21</i>	<i>N-FATc1</i>
<i>BIOTIN 10 pg</i>	<i>TRAP</i>	<i>NFKappaBP65</i>
<i>CASPASA2</i>	<i>VEGF Receptor 2</i>	<i>NFKB1 p105/p50</i>
<i>CASPASA9</i>	<i>CyclinB1</i>	<i>NOXA</i>
<i>CRBN</i>	<i>P-S6 (ser235/236)</i>	<i>Nucleolin</i>
<i>CXCR4</i>	<i>p-AKT (T308)</i>	

Gráfico 1. Señal de intensidad del subarray 1, microarray 3.

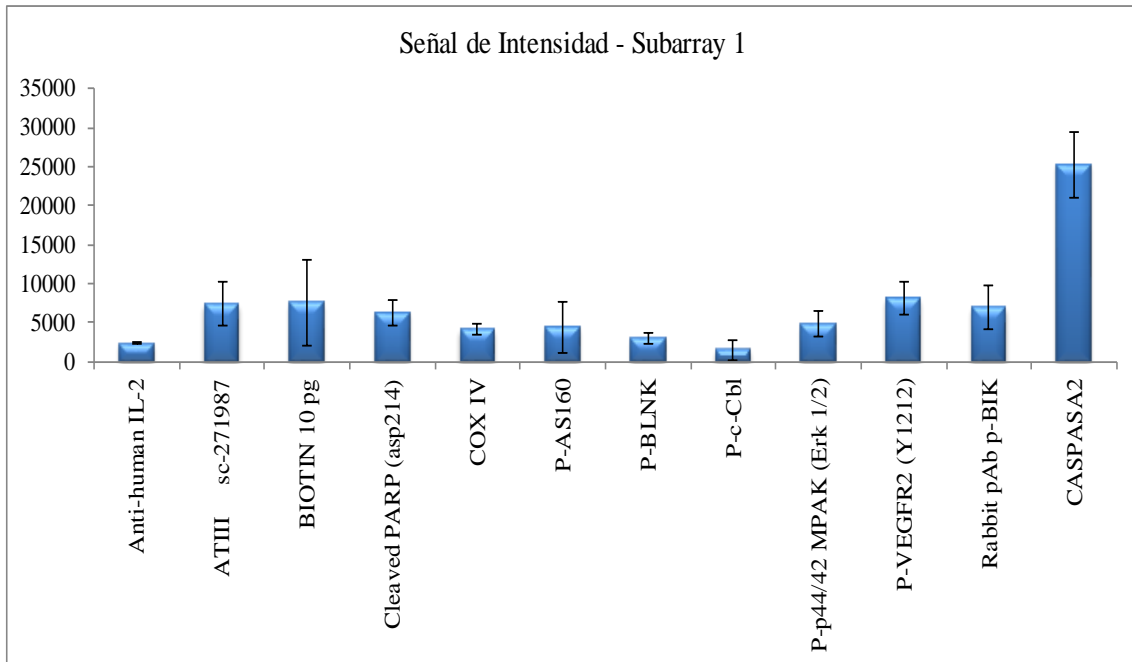


Gráfico 2. Señal de intensidad del subarray 1.A, microarray 3.

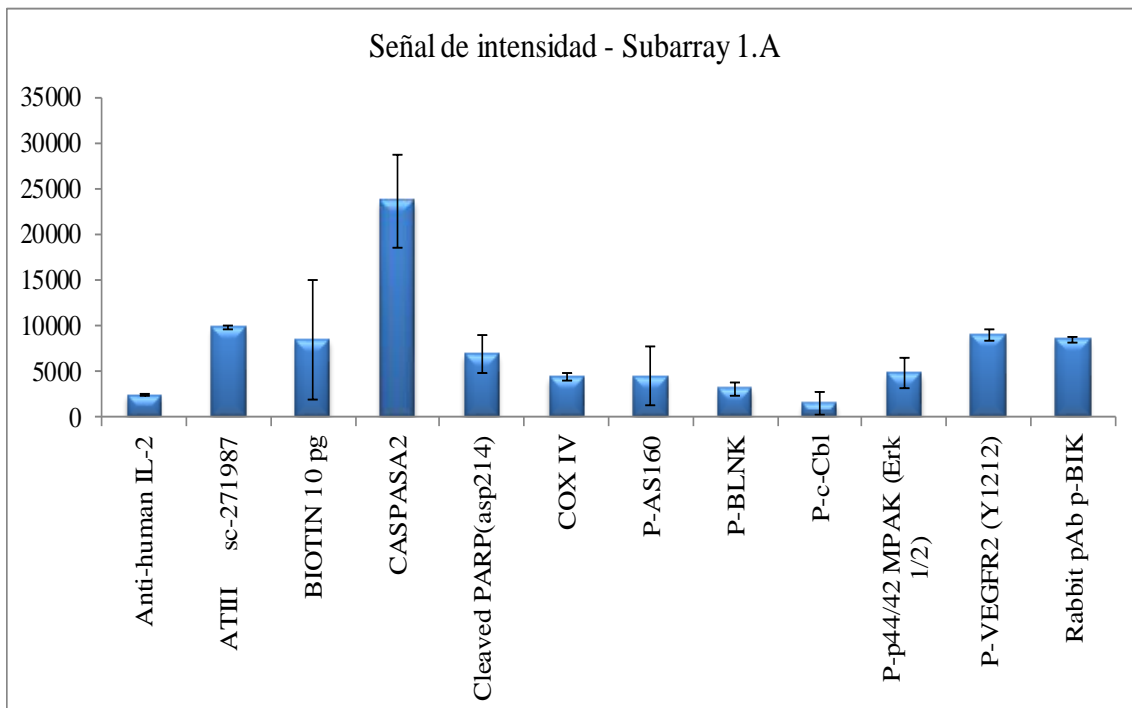


Gráfico 3. Señal de intensidad del subarray 1.B, microarray 3.

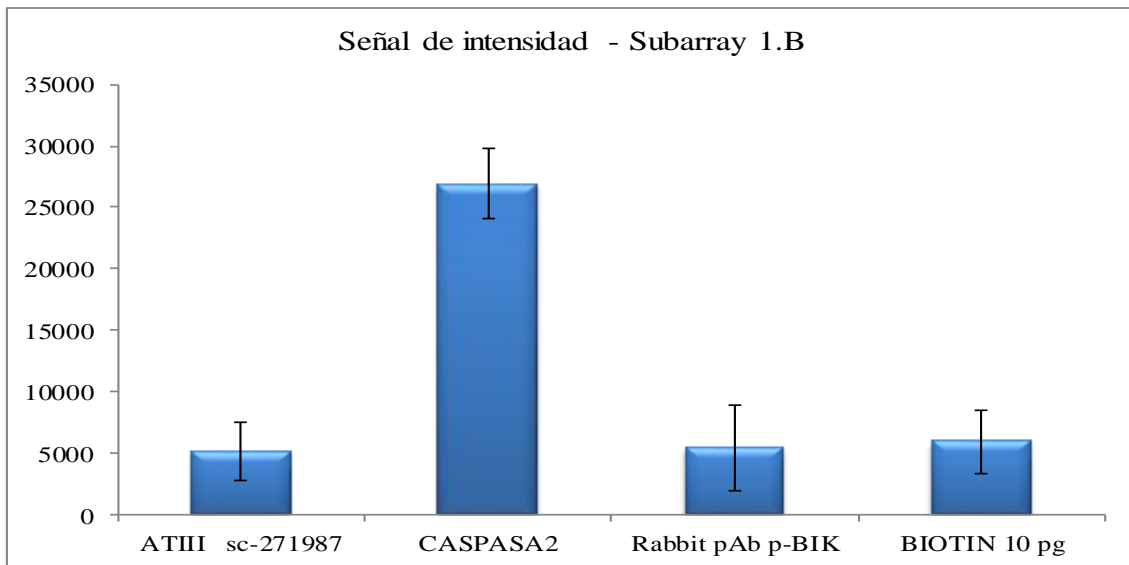


Gráfico 4. Señal de intensidad del subarray 2, microarray 3.

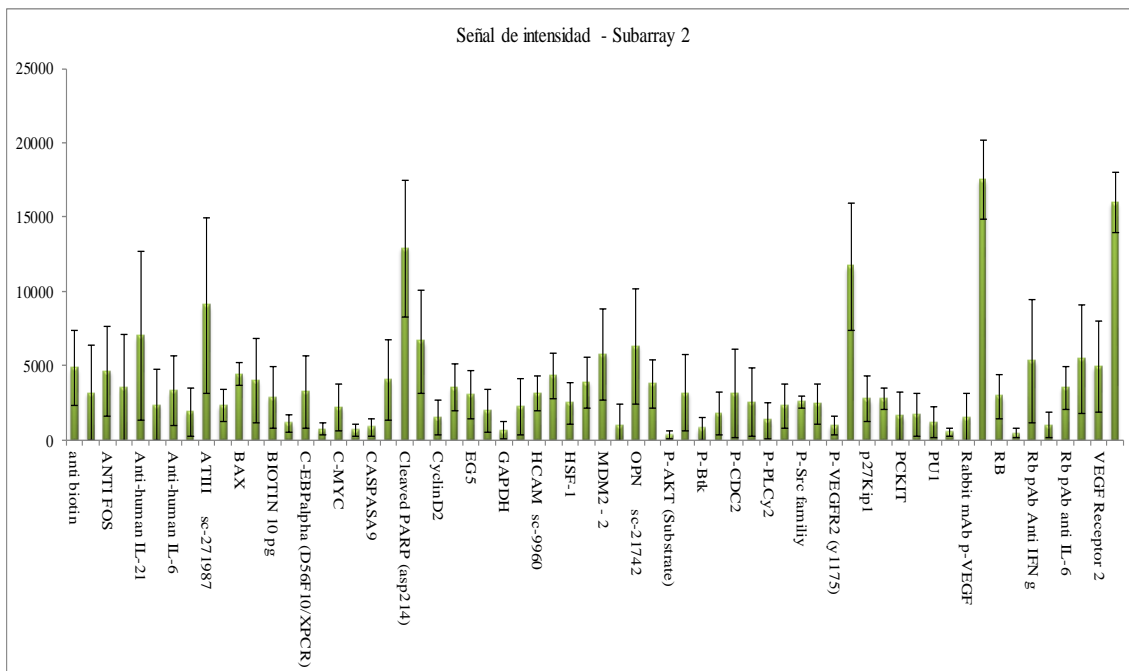


Gráfico 5. Señal de intensidad del subarray 2.A, microarray 3.

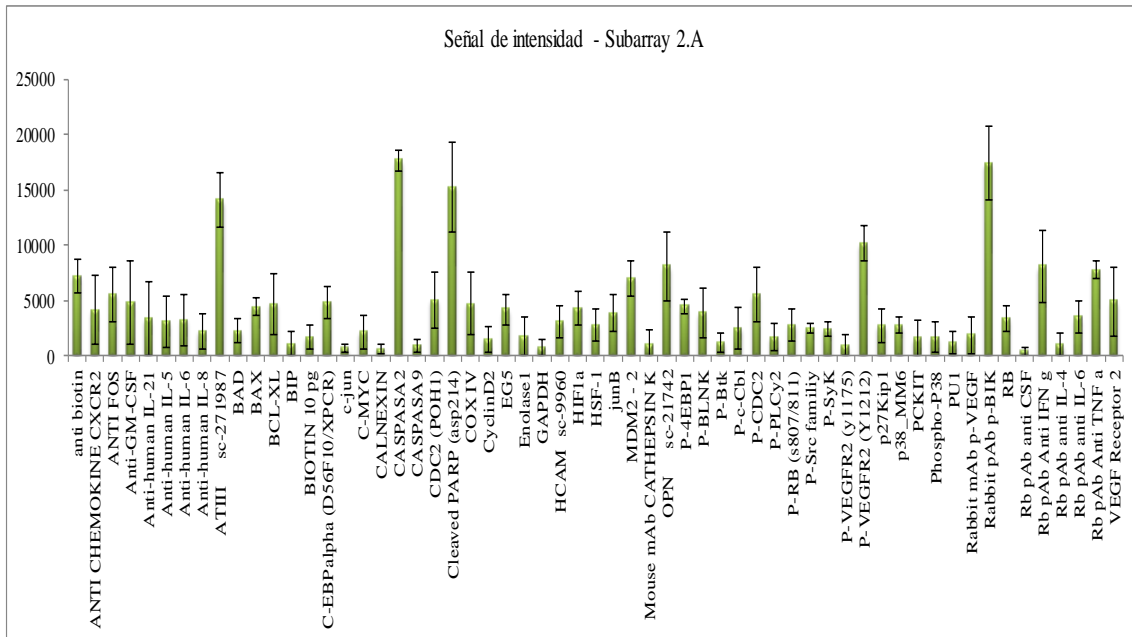


Gráfico 6. Señal de intensidad del subarray 2.B, microarray 3.

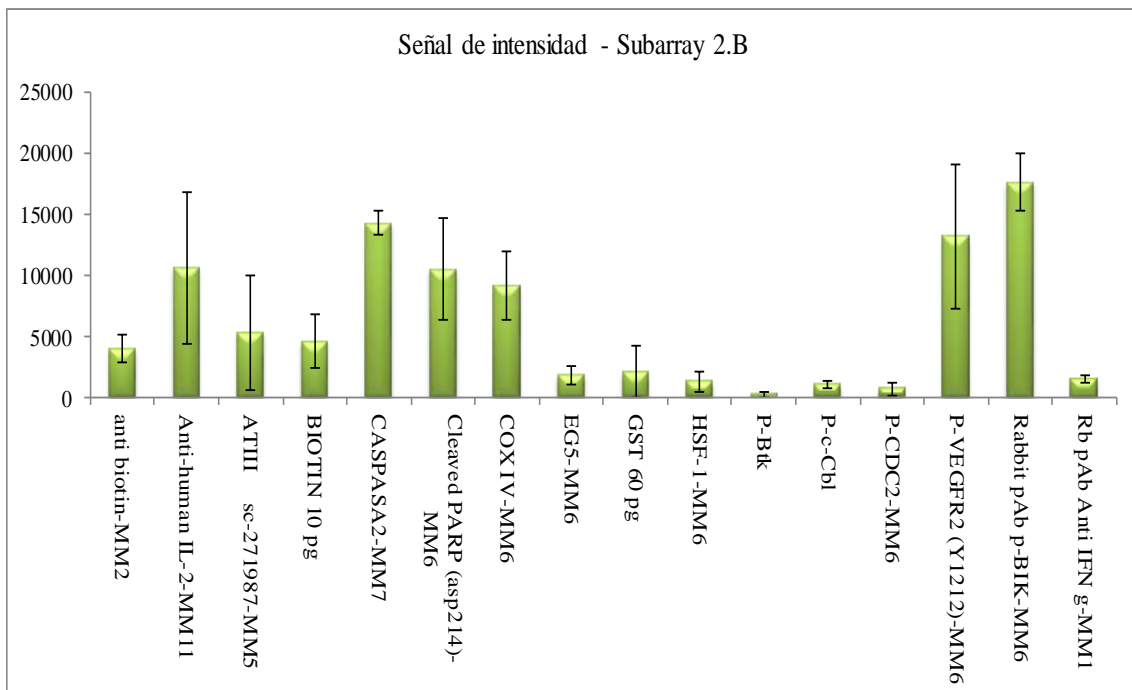


Gráfico 7. Señal de intensidad del subarray 3, microarray 3.

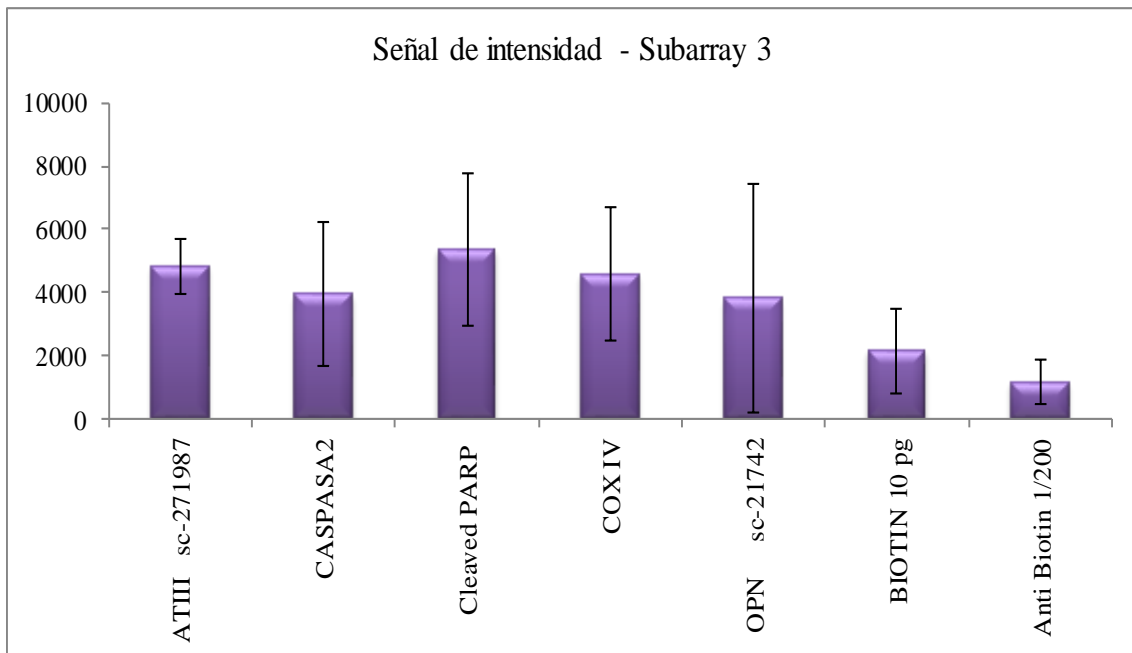


Gráfico 8. Señal de intensidad del subarray 4, microarray 4.

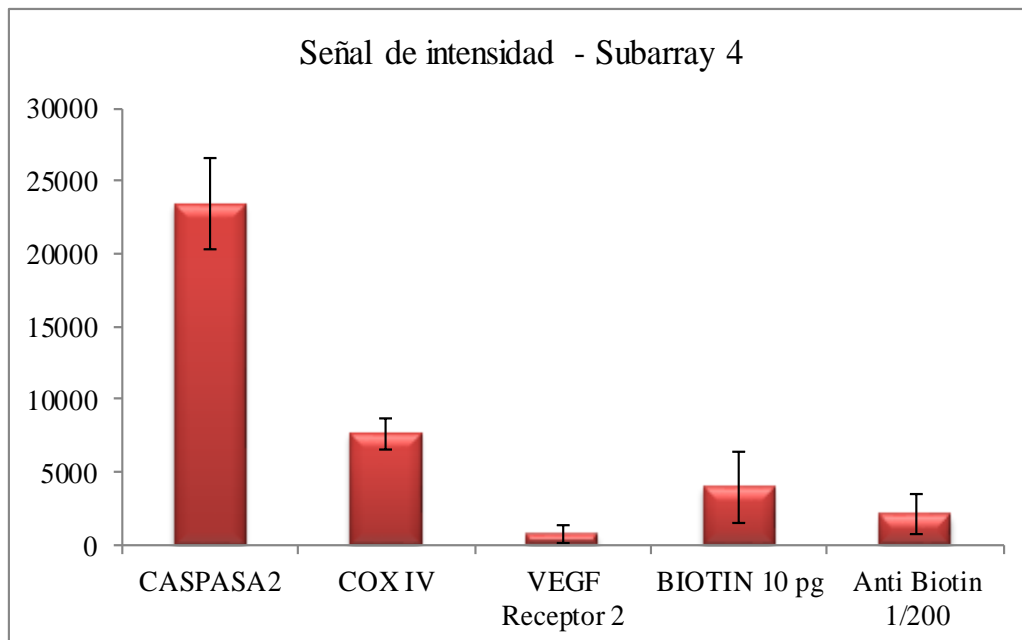


Gráfico 9. Señal de intensidad del subarray 5, microarray 4.

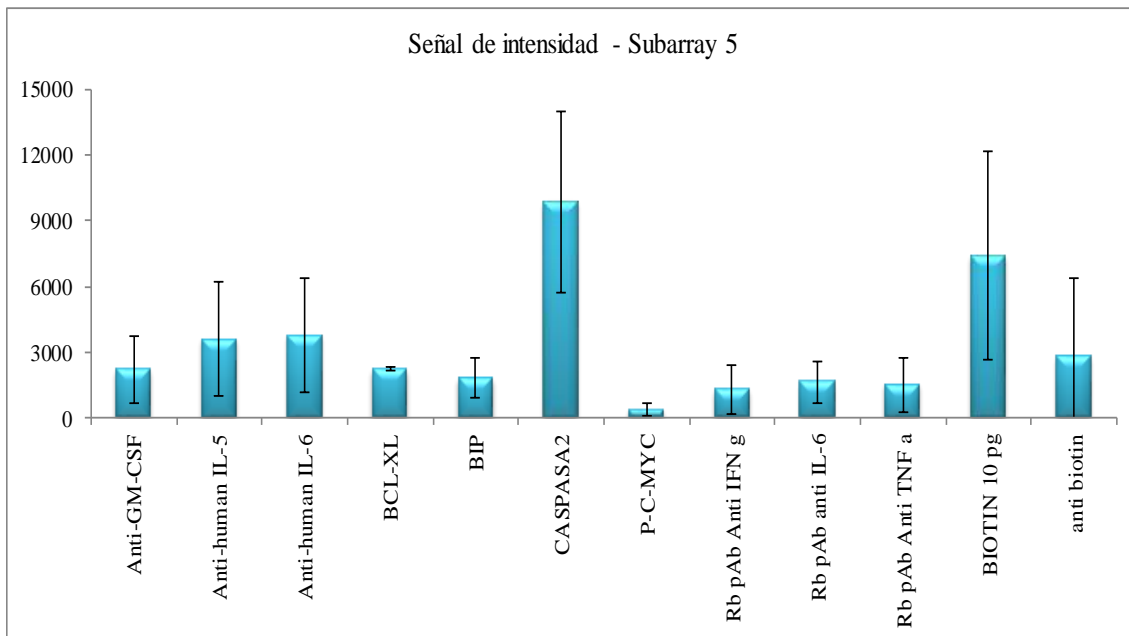


Gráfico 10. Señal de intensidad del subarray 6, microarray 5.

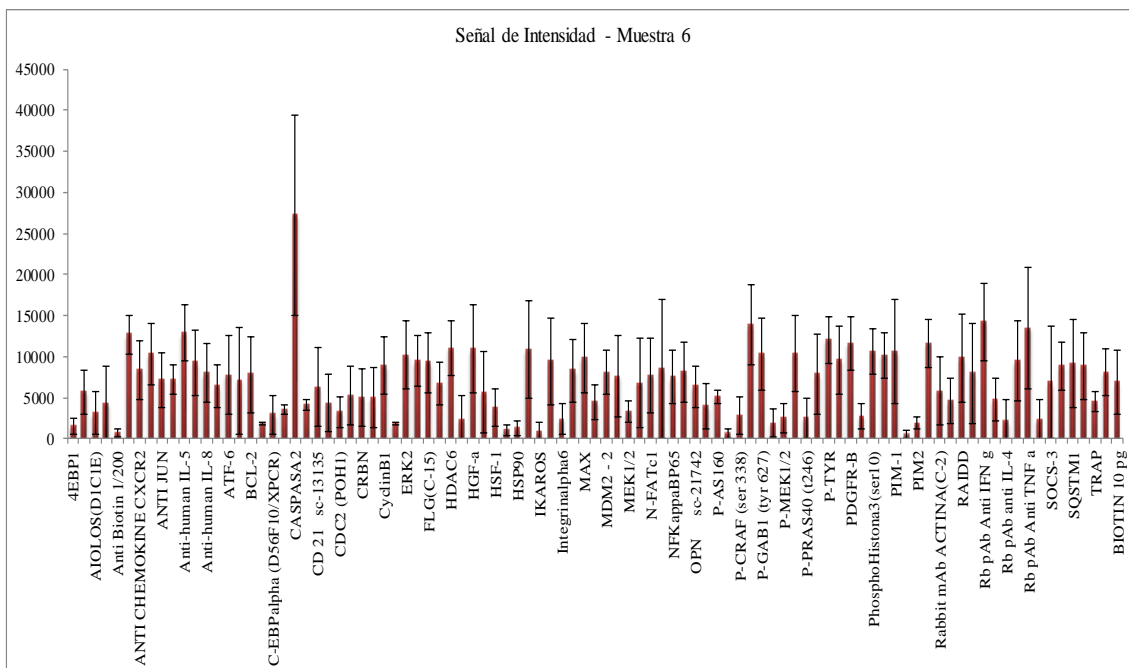


Gráfico 11. Señal de intensidad del subarray 6.A, microarray 5.

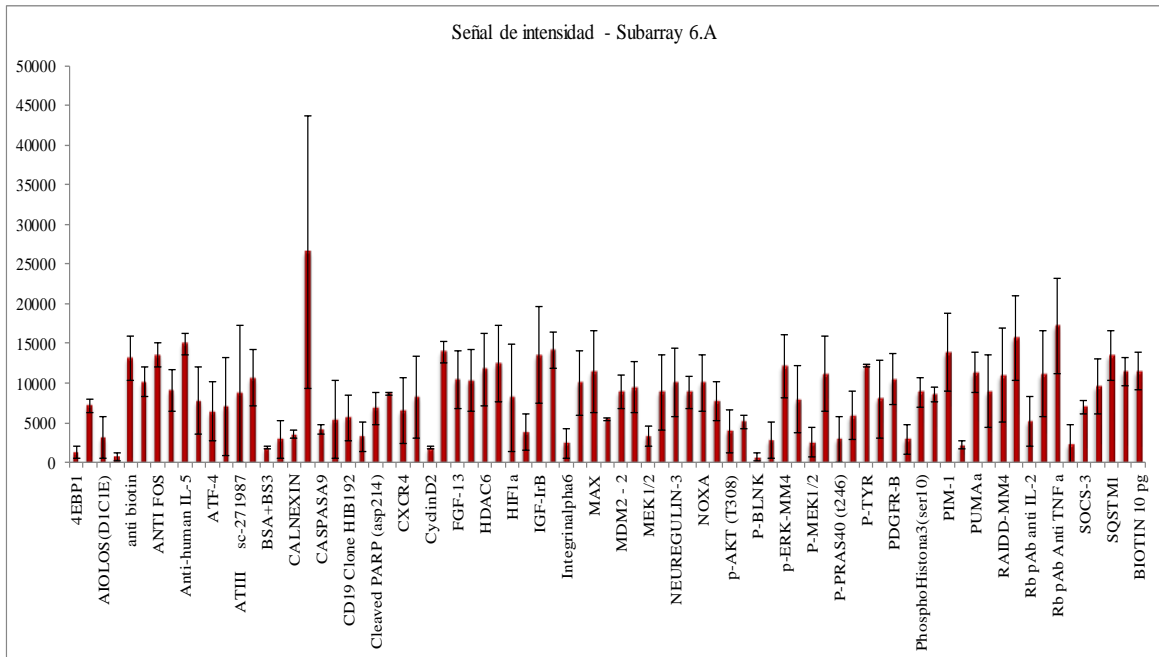


Gráfico 12. Señal de intensidad del subarray 6.B, microarray 5.

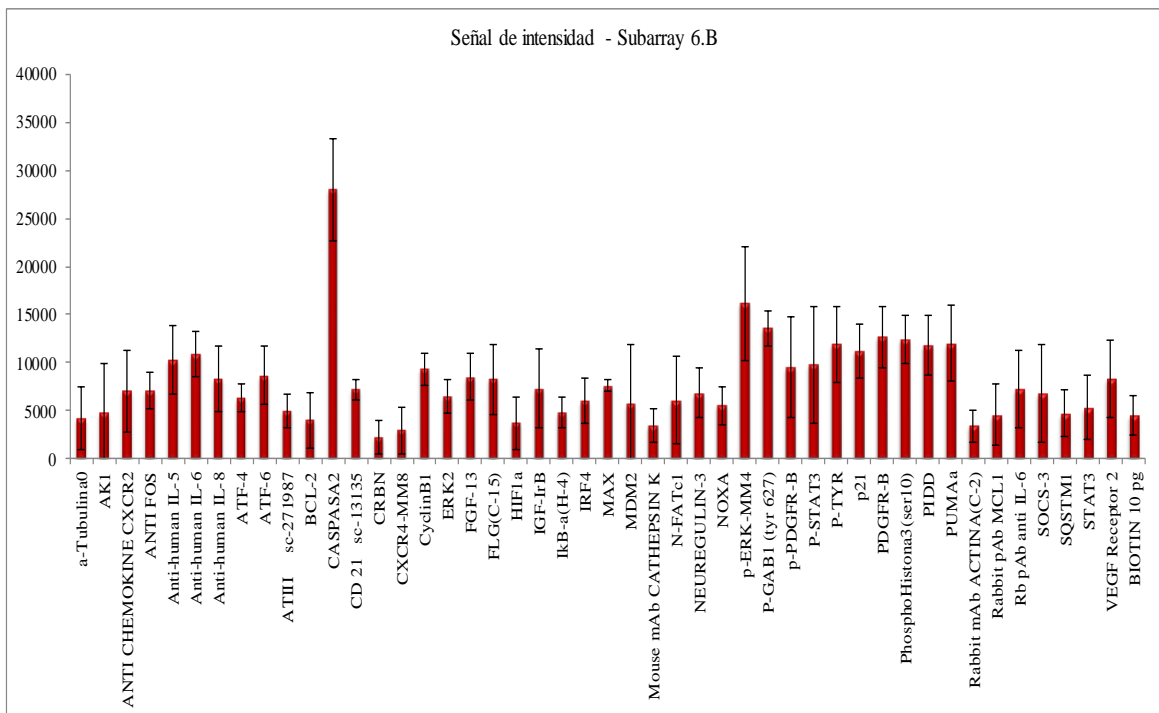


Gráfico 13. Señal de intensidad del subarray 7, microarray 5.

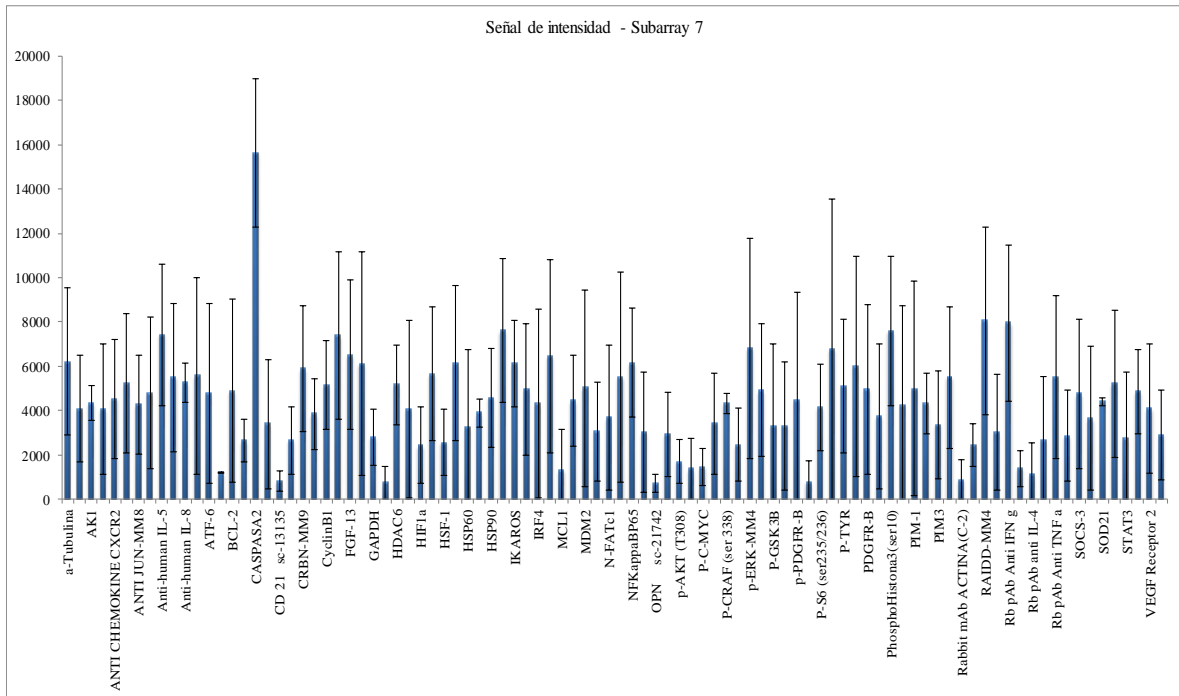


Gráfico 14. Señal de intensidad del subarray 7.A, microarray 5.

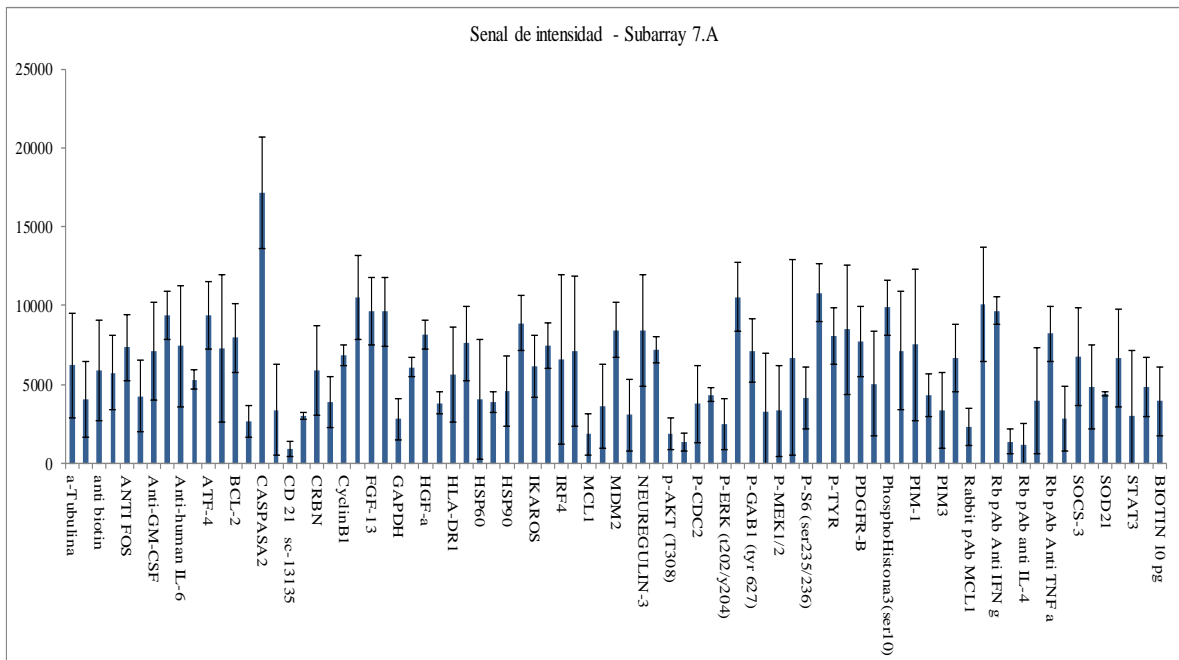


Gráfico 15. Señal de intensidad del subarray 7.B, microarray 5.

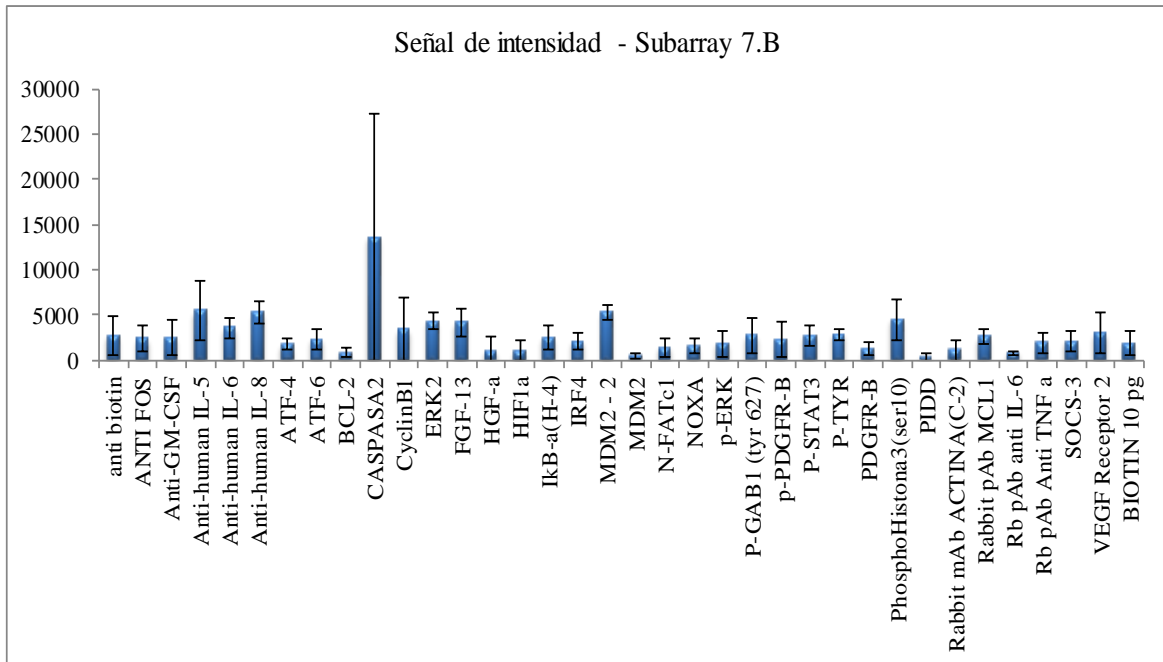


Gráfico 16. Señal de intensidad del subarray 8.A, microarray 5.

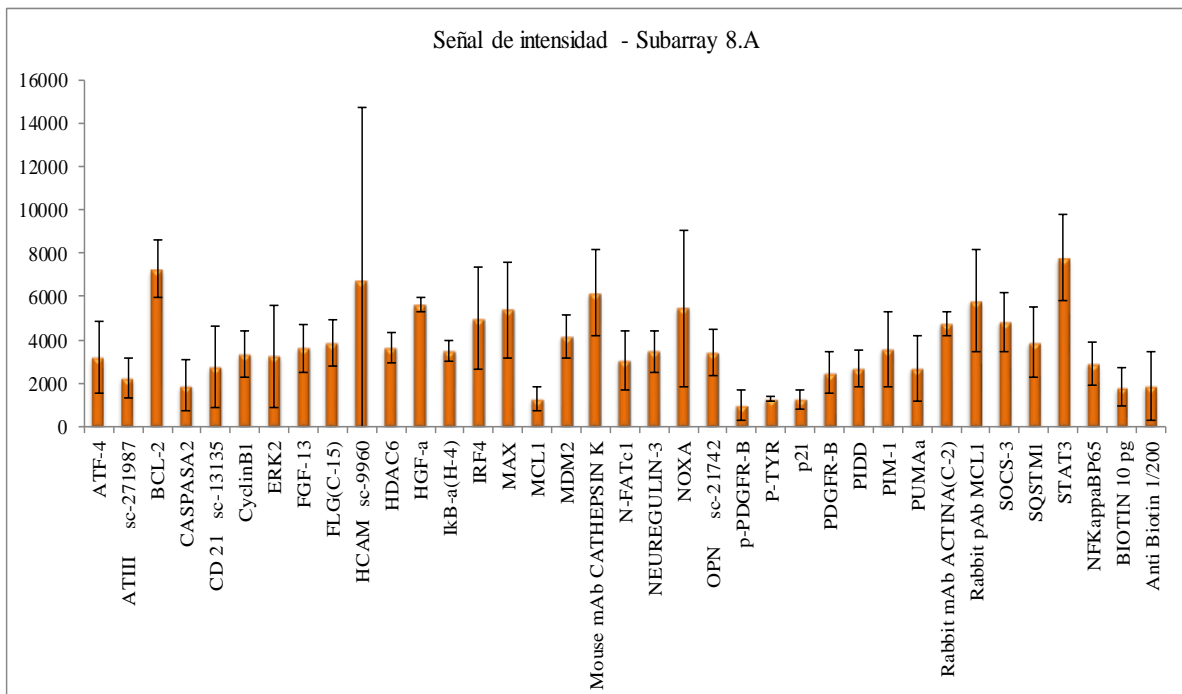


Gráfico 17. Señal de intensidad del subarray 8.B, microarray 6.

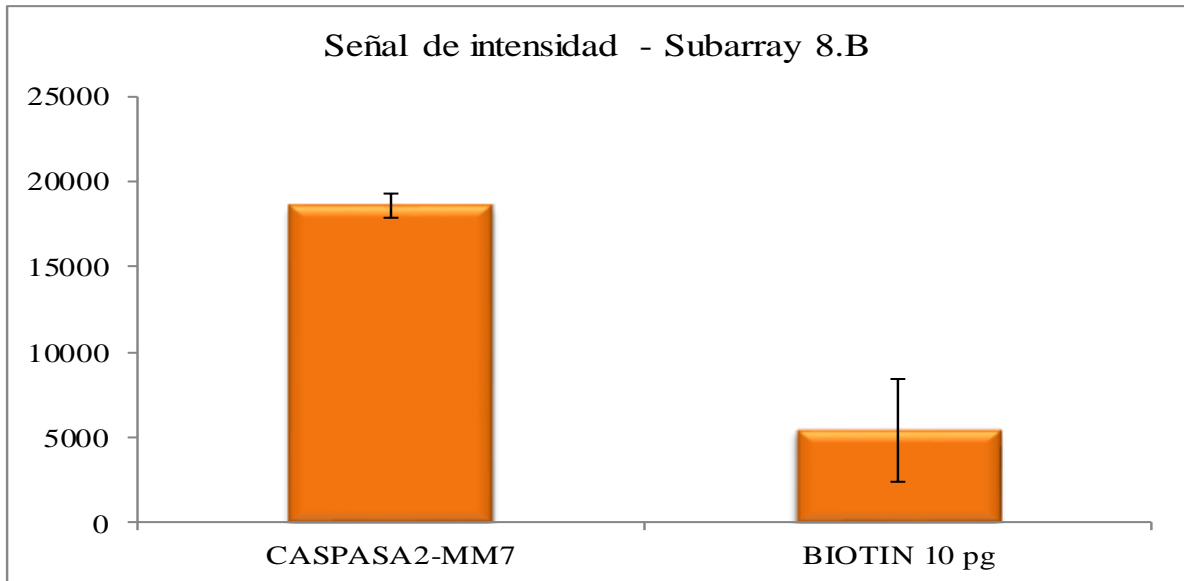


Gráfico 18. Señal de intensidad del subarray 9, microarray 6.

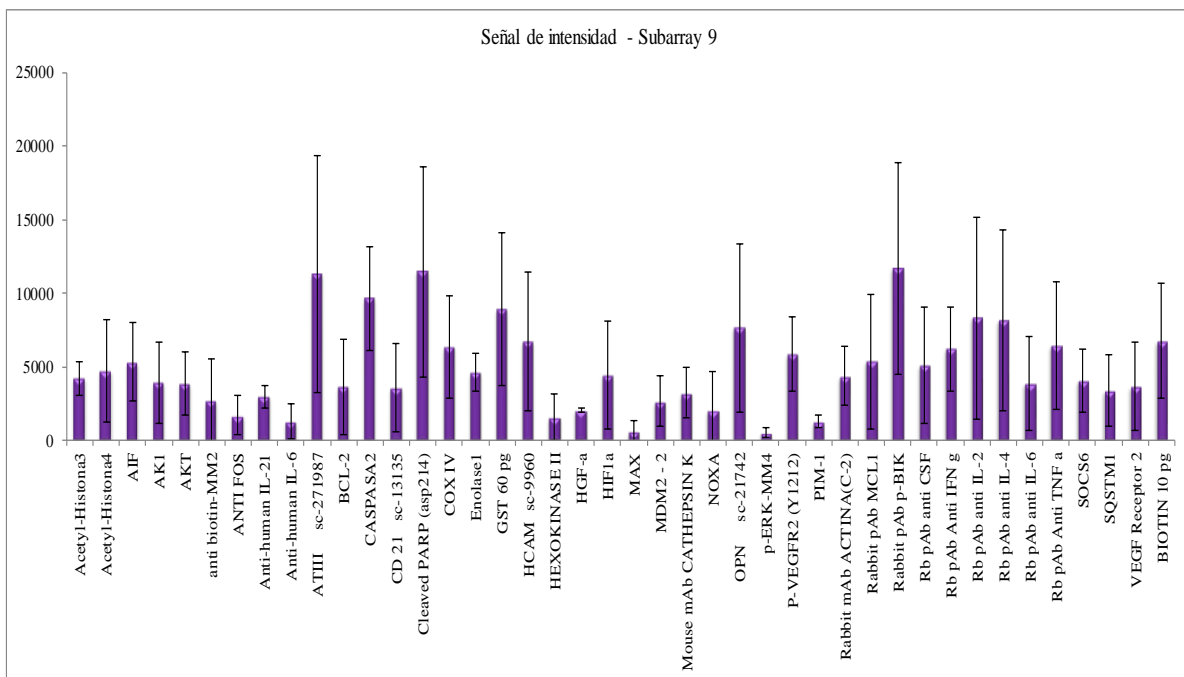


Gráfico 19. Señal de intensidad del subarray 9.A, microarray 6.

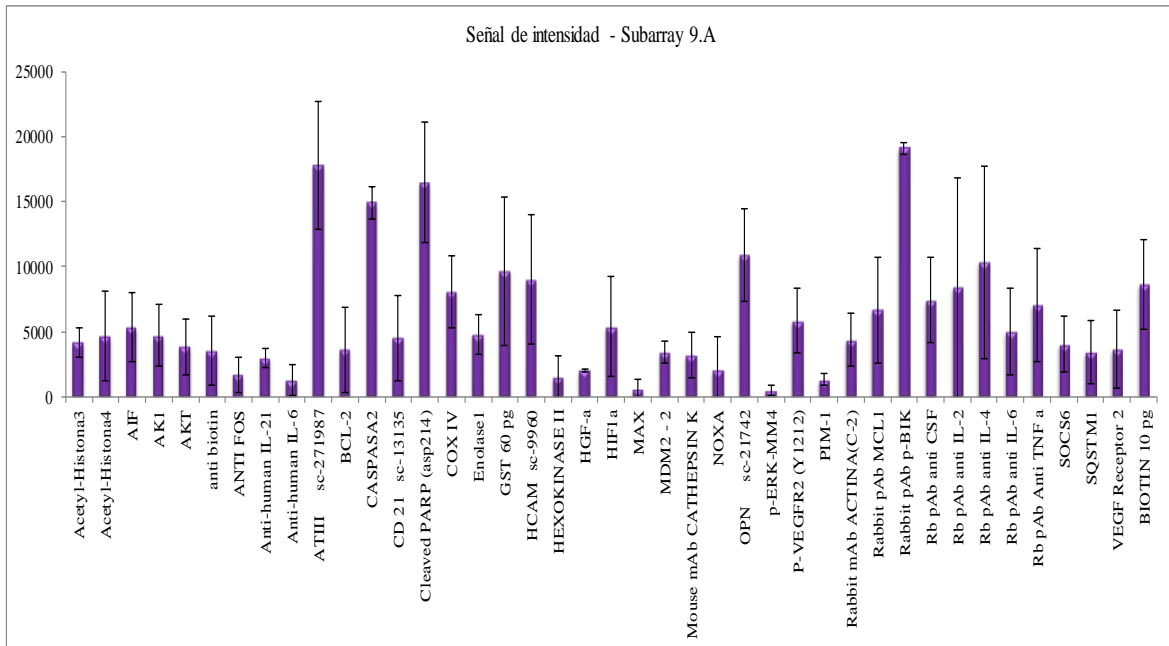


Gráfico 20. Señal de intensidad del subarray 9.B, microarray 6.

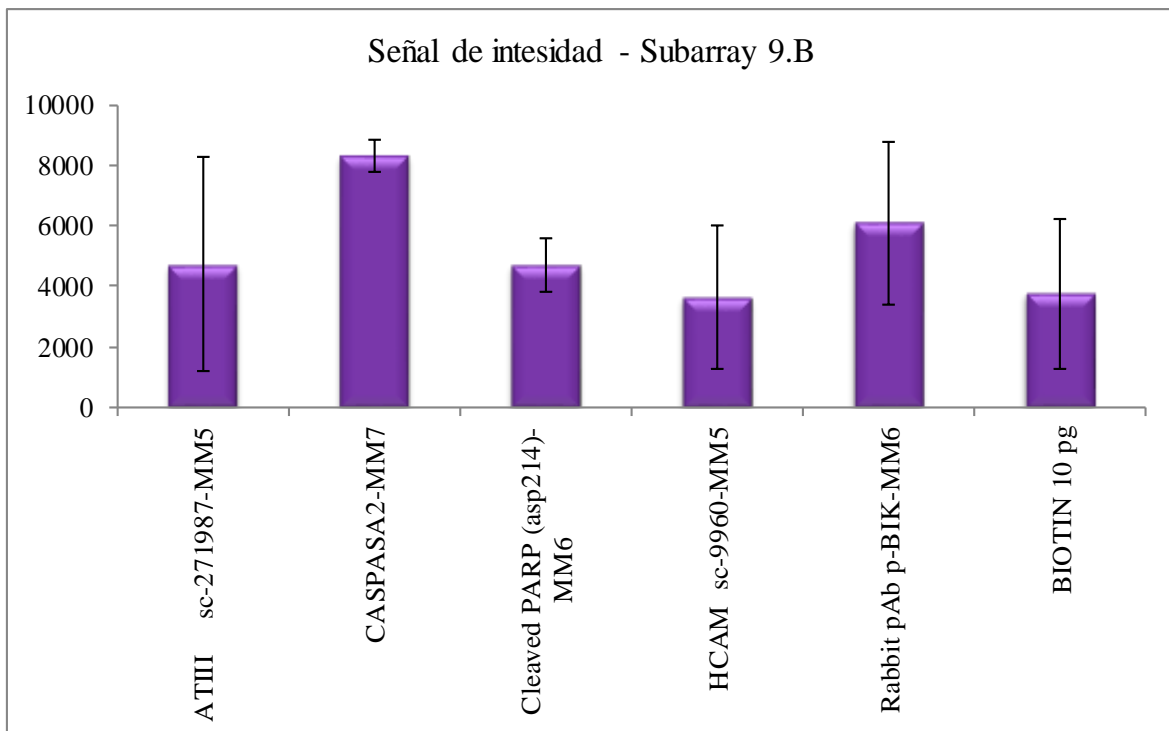


Gráfico 21. Señal de intensidad del subarray 1, microarray 11.

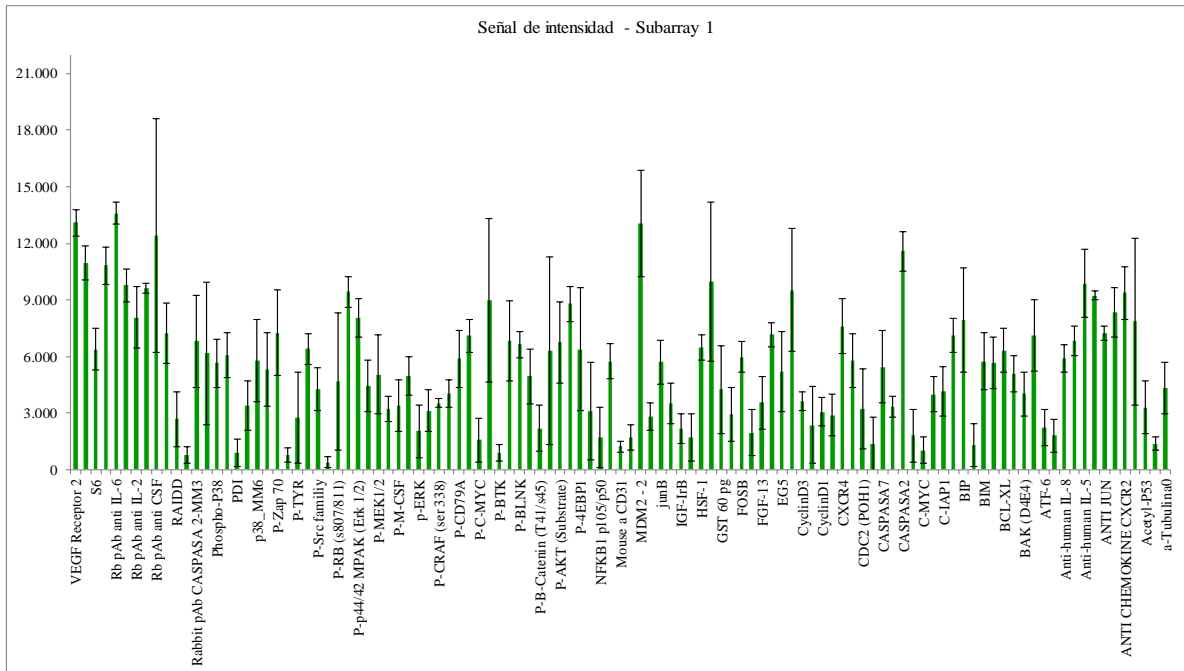


Gráfico 22. Señal de intensidad del subarray 2, microarray 11.

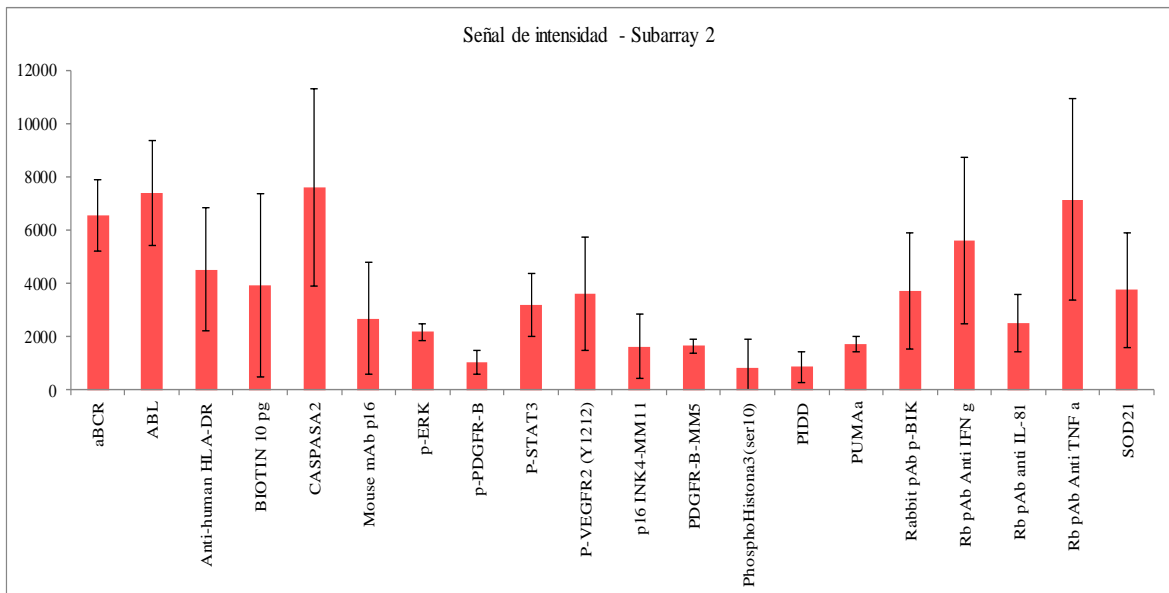


Gráfico 23. Señal de intensidad del subarray 3, microarray 11.

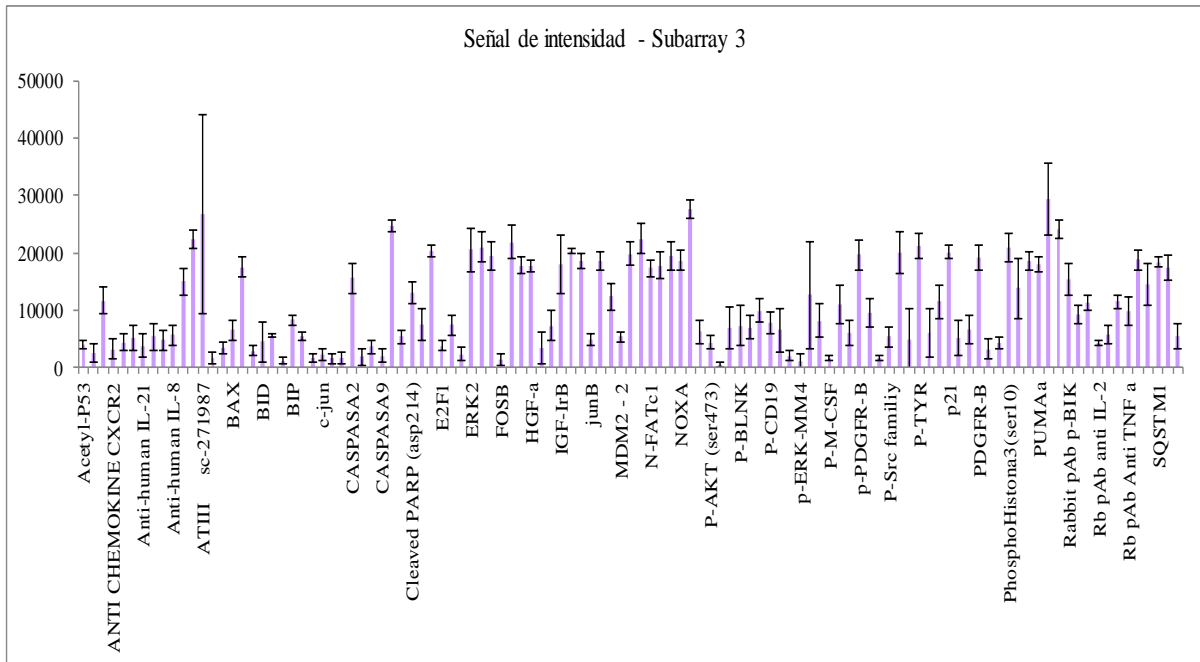


Gráfico 24. Señal de intensidad del subarray 4, microarray 11.

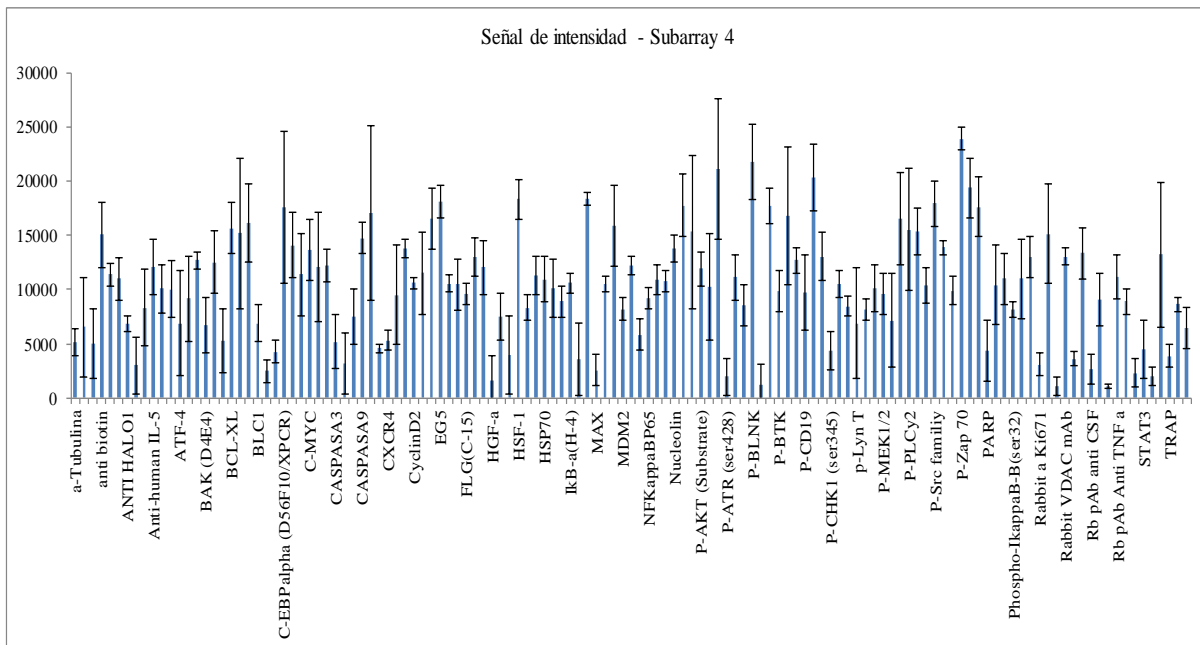


Gráfico 25. Señal de intensidad del MIX, microarray 11.

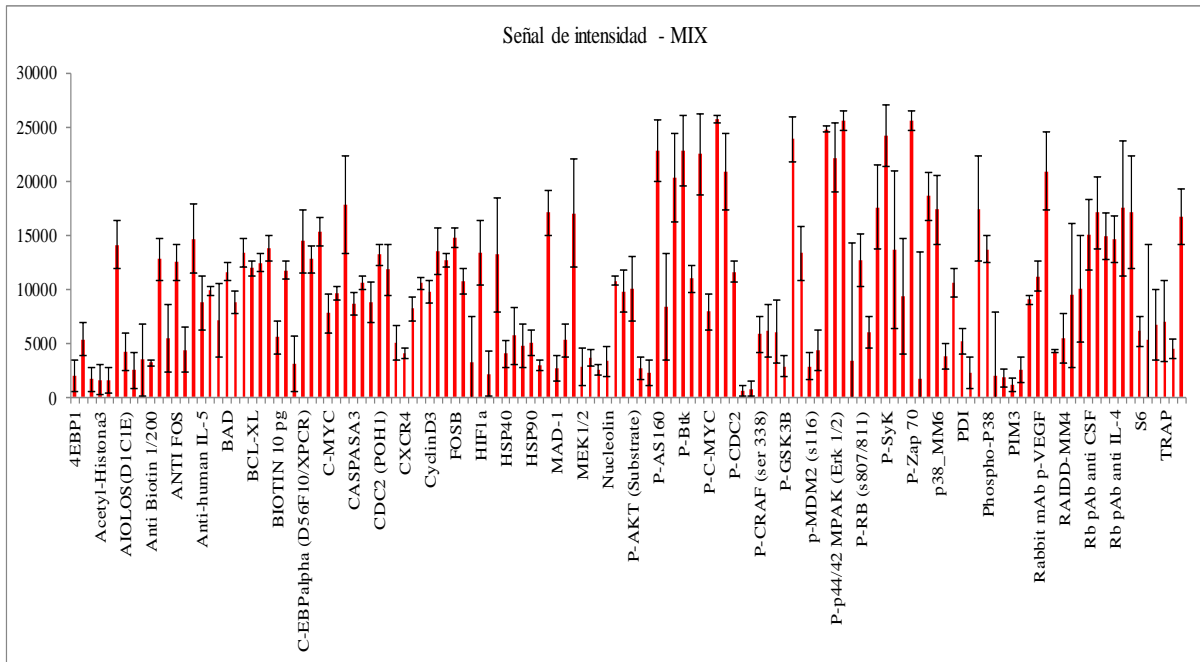


Gráfico 26. Señal de intensidad del subarray 2, microarray 22.

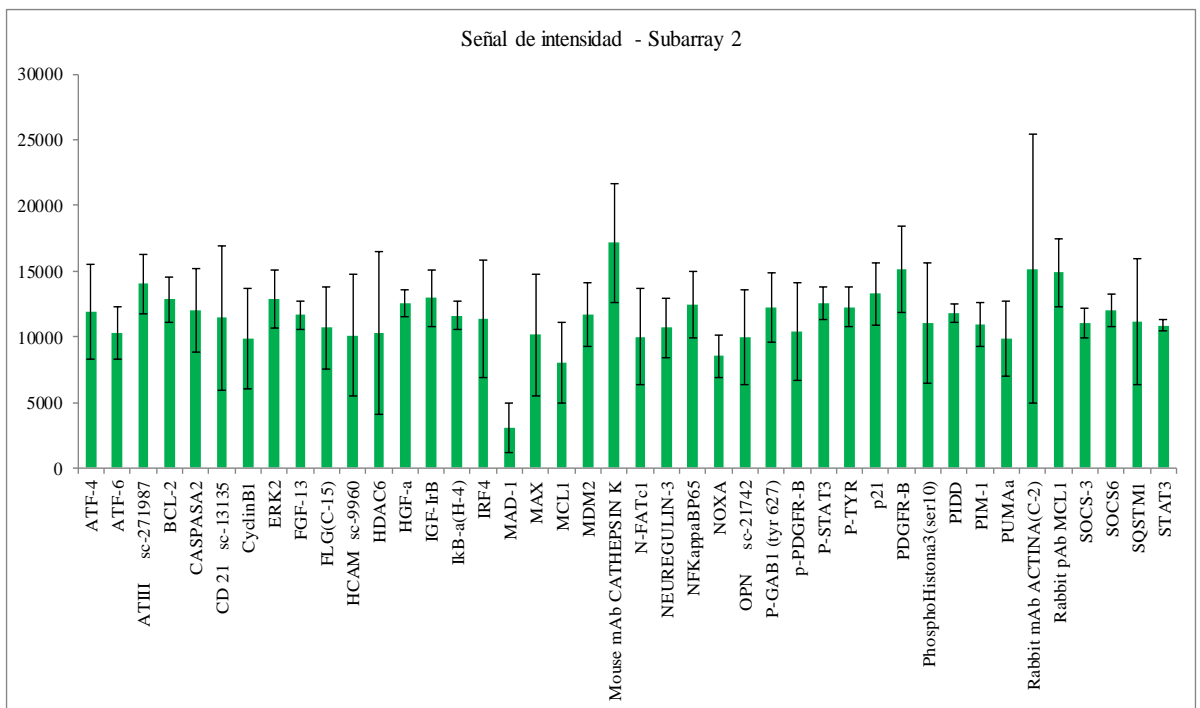


Gráfico 27. Señal de intensidad del subarray 3, microarray 22.

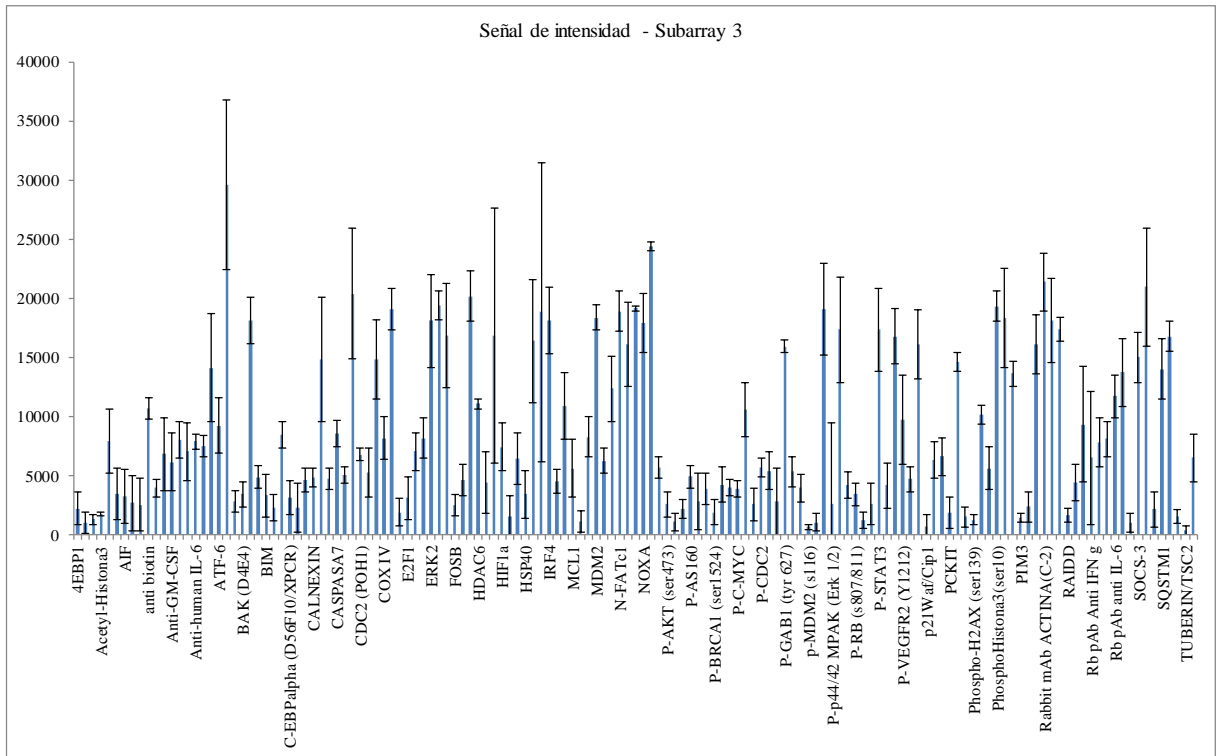


Gráfico 28. Señal de intensidad del subarray 4, microarray 22.

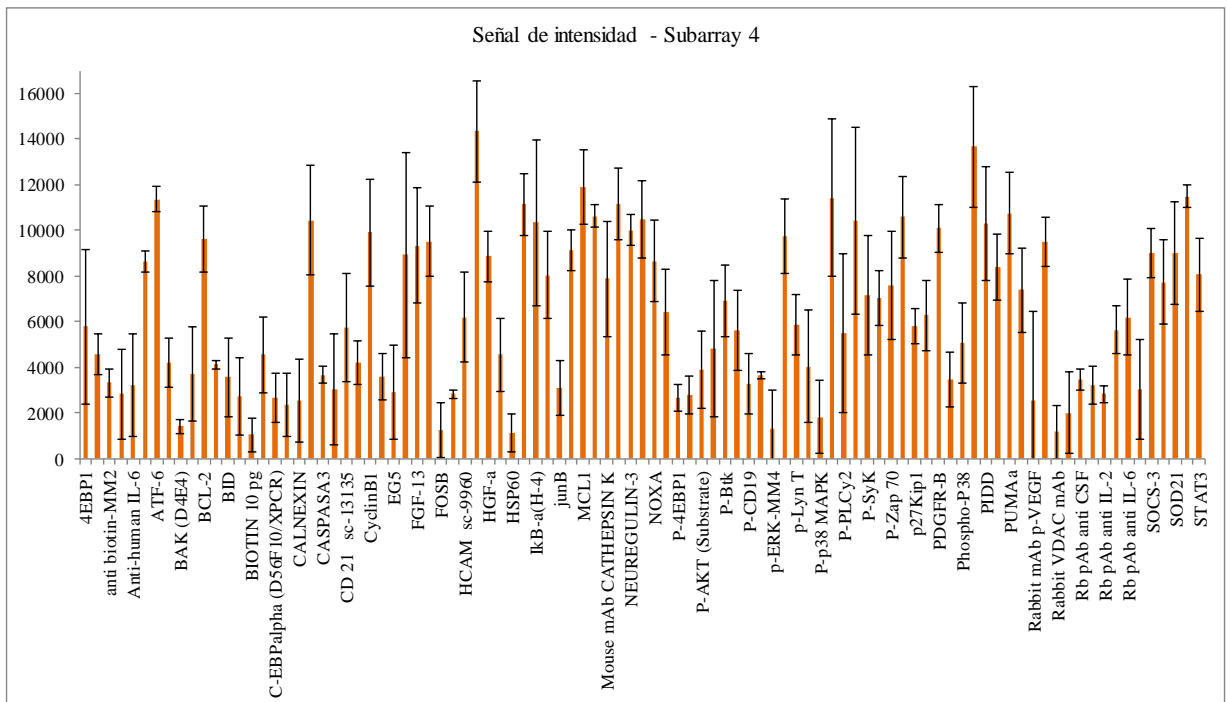


Gráfico 29. Señal de intensidad del MIX, microarray 22.

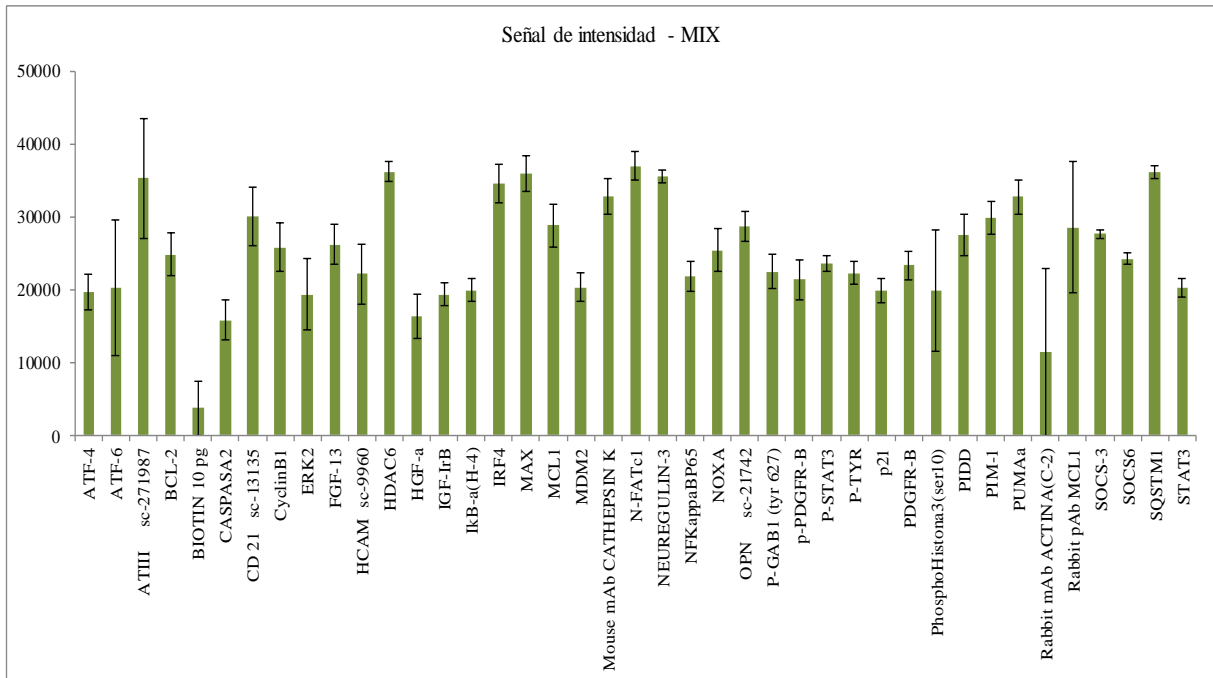


Gráfico 30. Señal de intensidad del subarray 1, microarray 8.

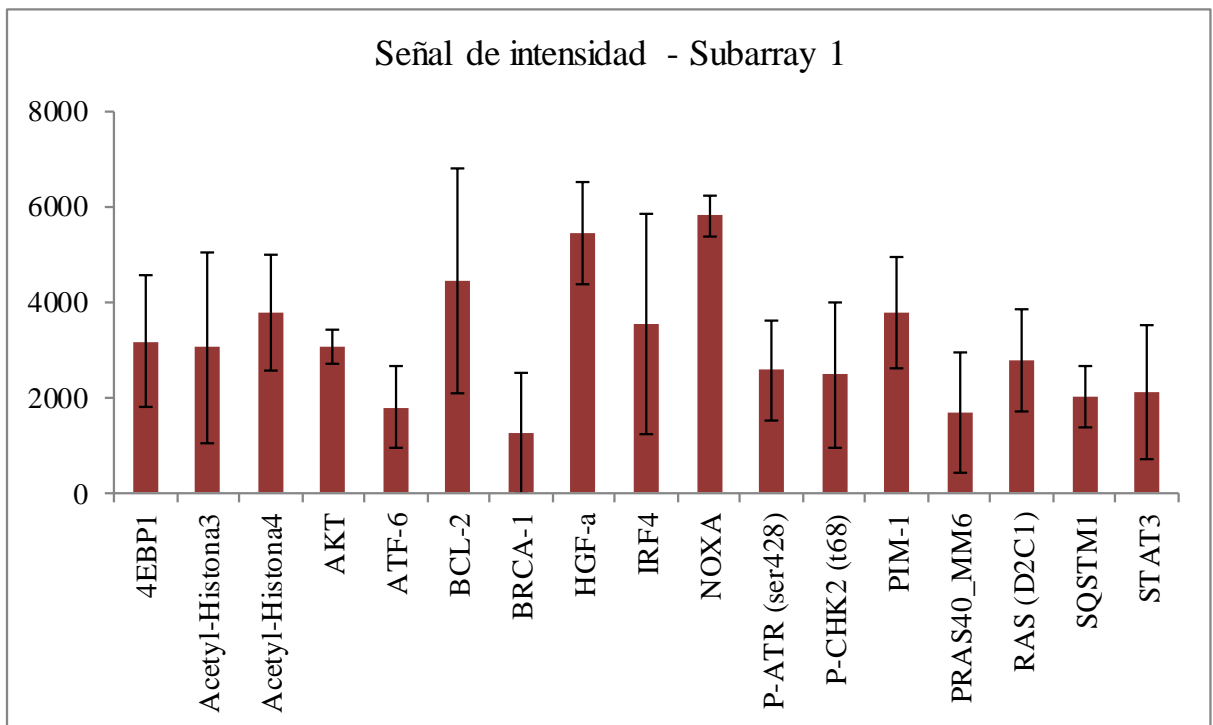


Gráfico 31. Señal de intensidad del subarray 3, microarray 8.

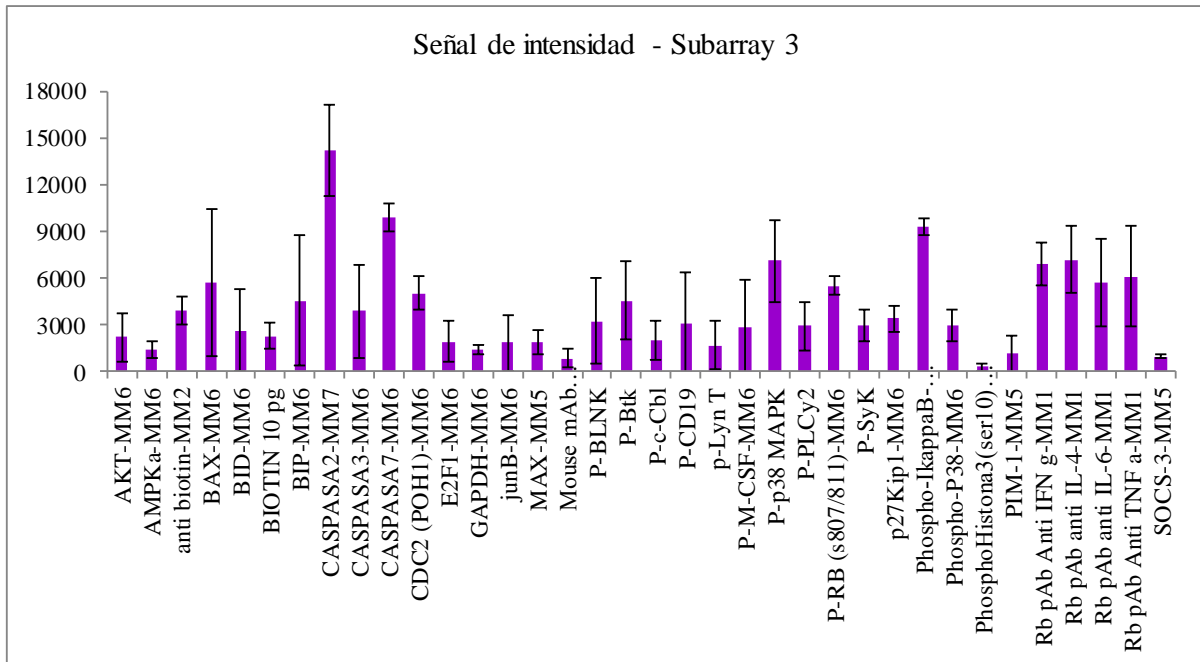


Gráfico 32. Señal de intensidad del subarray 5, microarray 8.

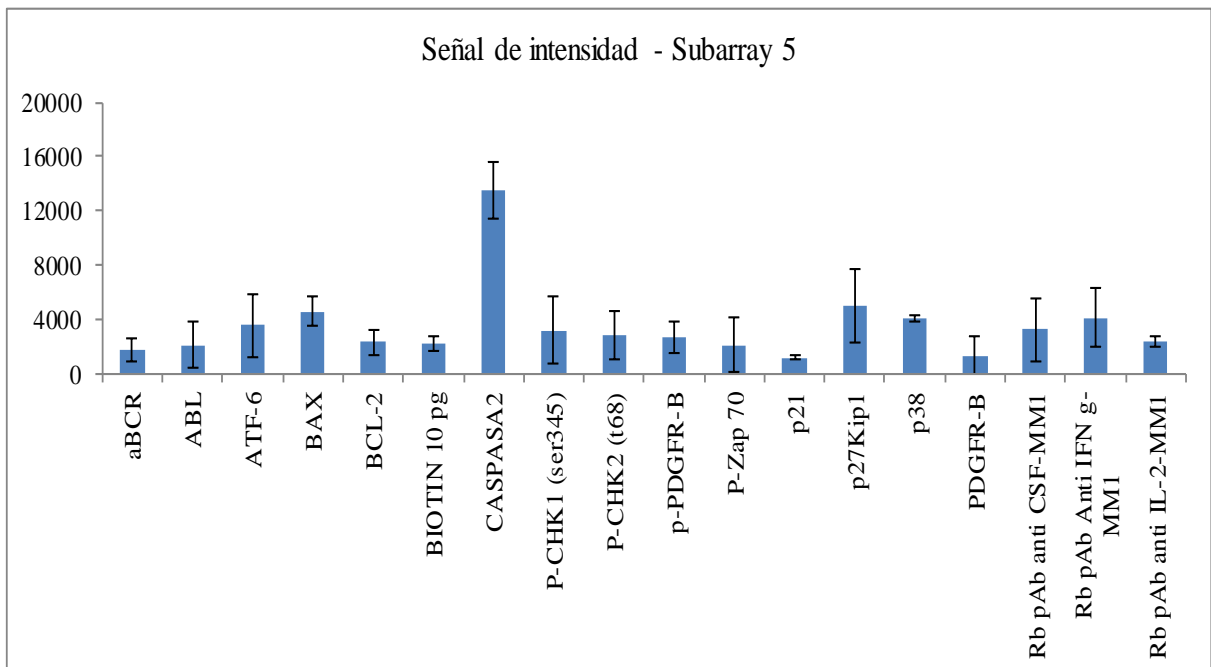


Gráfico 32. Señal de intensidad del subarray 6, microarray 12.

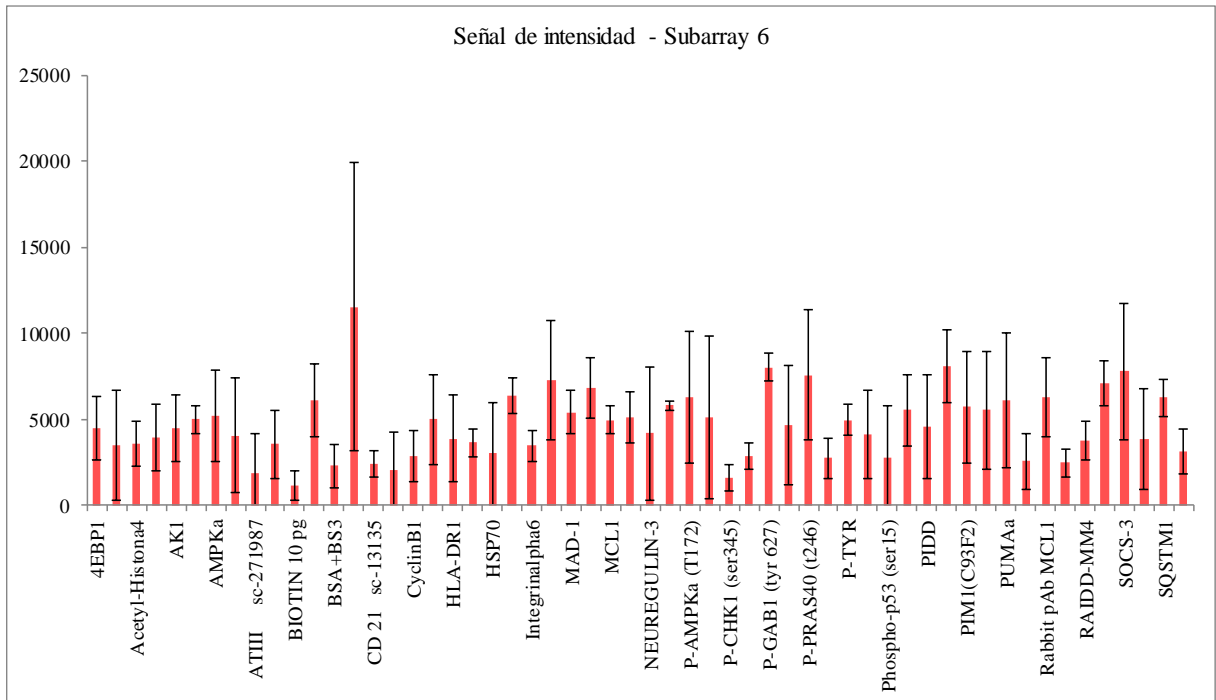


Gráfico 33. Señal de intensidad del subarray 7, microarray 12.

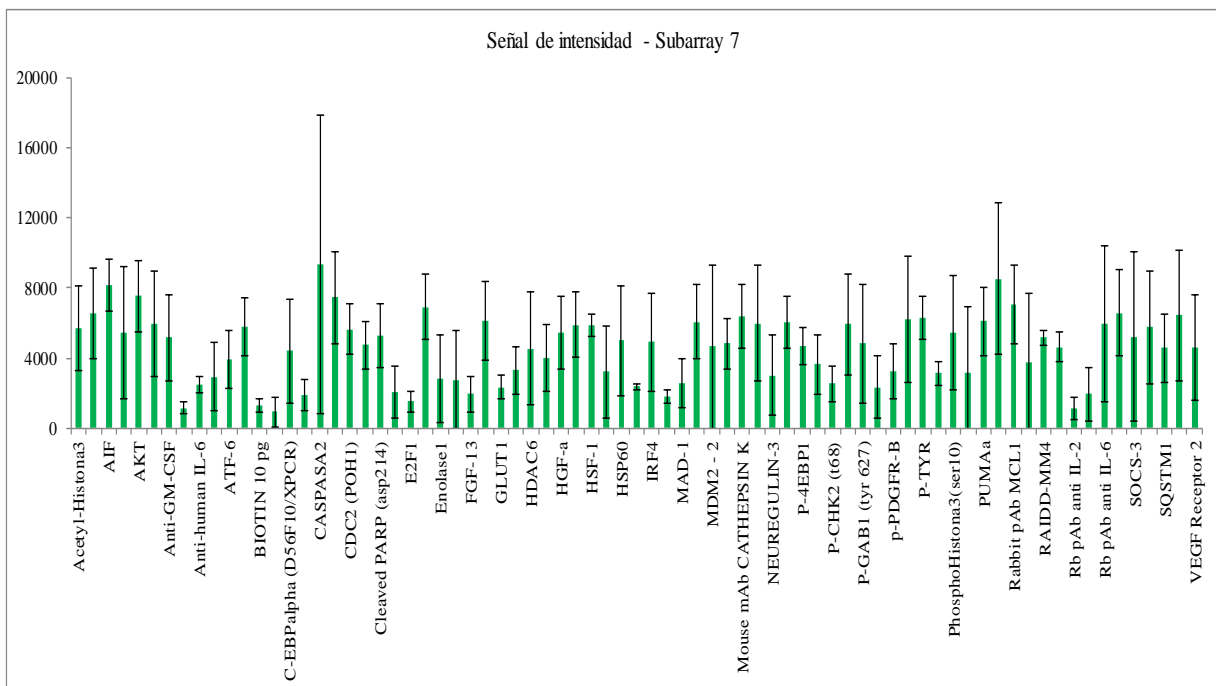


Gráfico 34. Señal de intensidad del subarray 8, microarray 12.

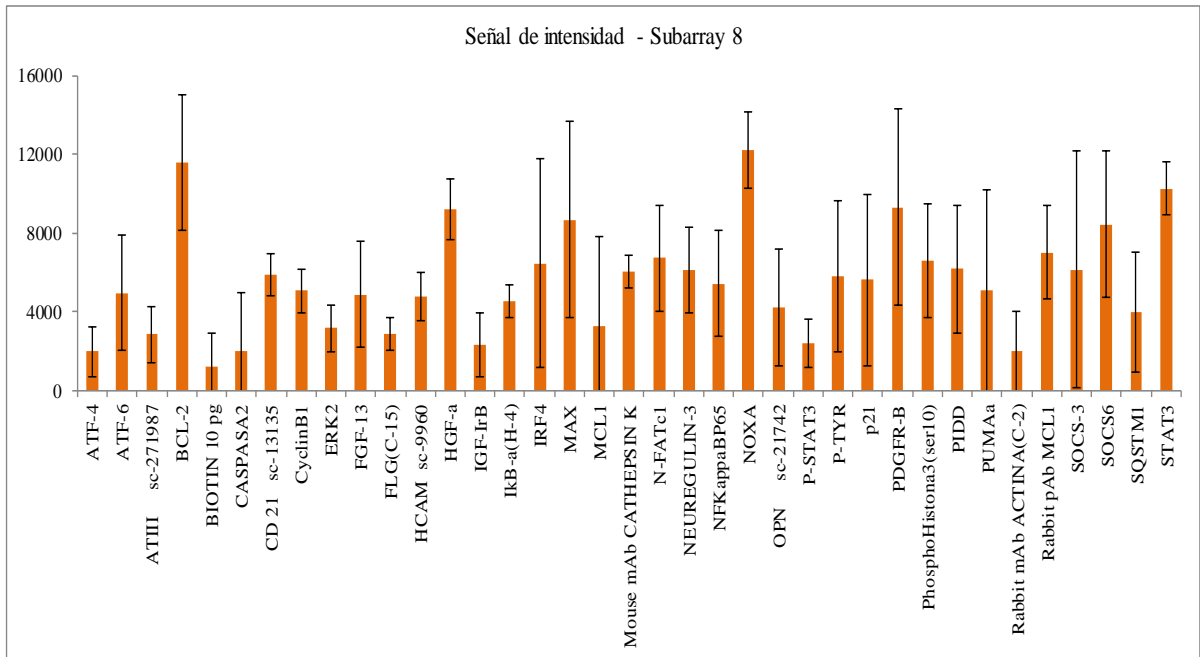


Gráfico 35. Señal de intensidad del subarray 9, microarray 12.

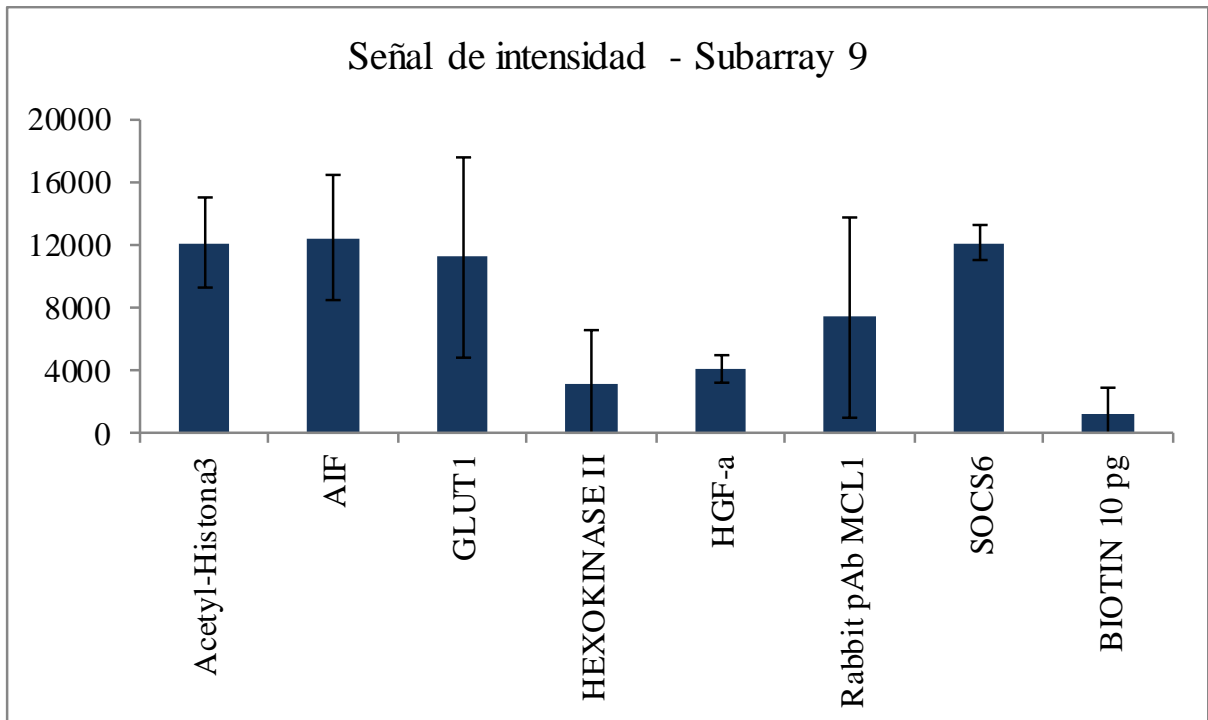


Gráfico 36. Señal de intensidad del MIX I, microarray 12.

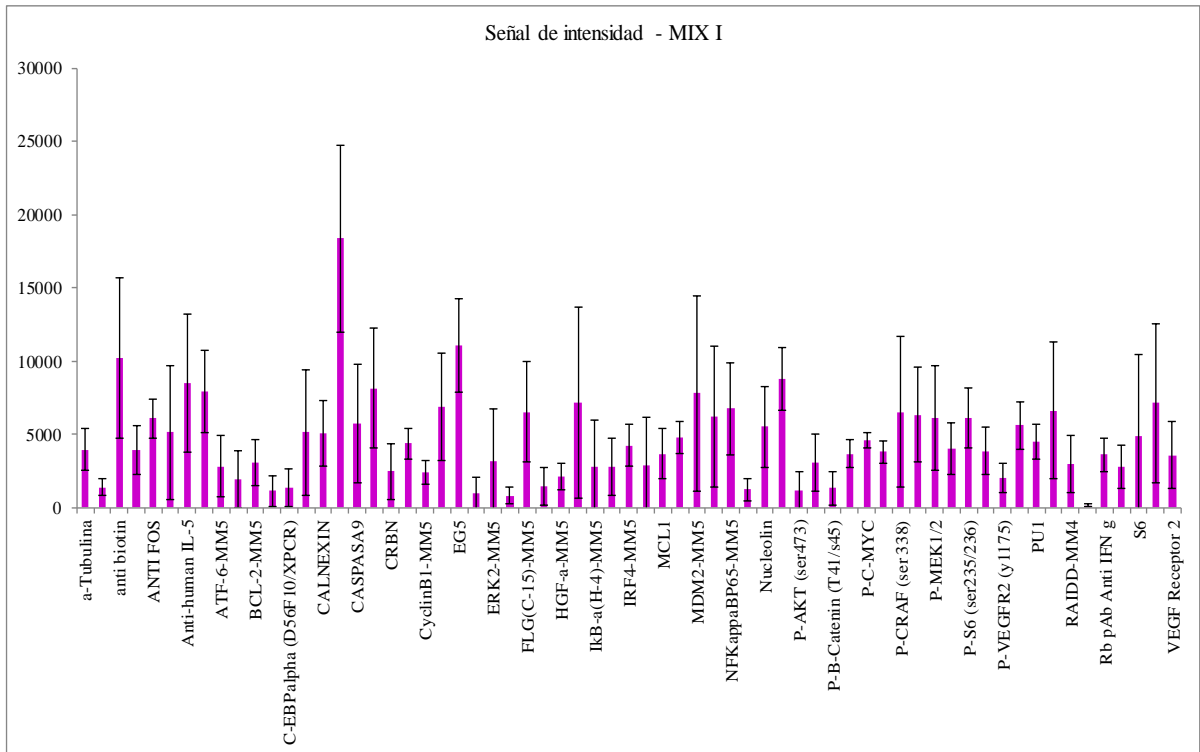


Gráfico 37. Señal de intensidad del subarray 11, microarray 16.

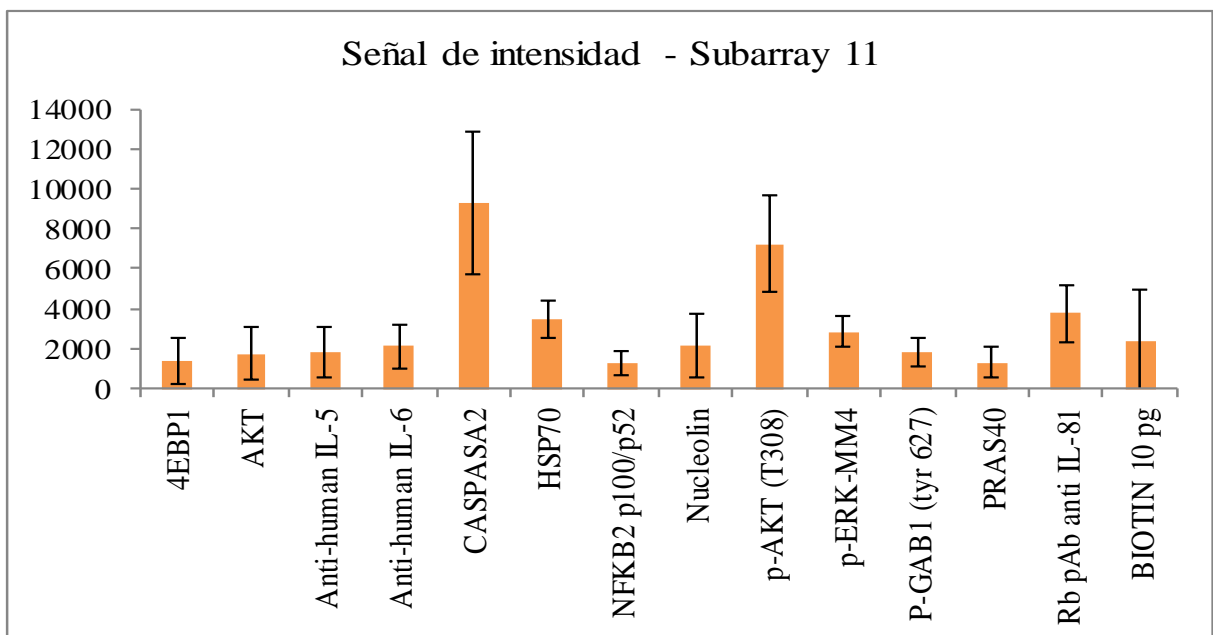


Gráfico 38. Señal de intensidad del subarray 12, microarray 16.

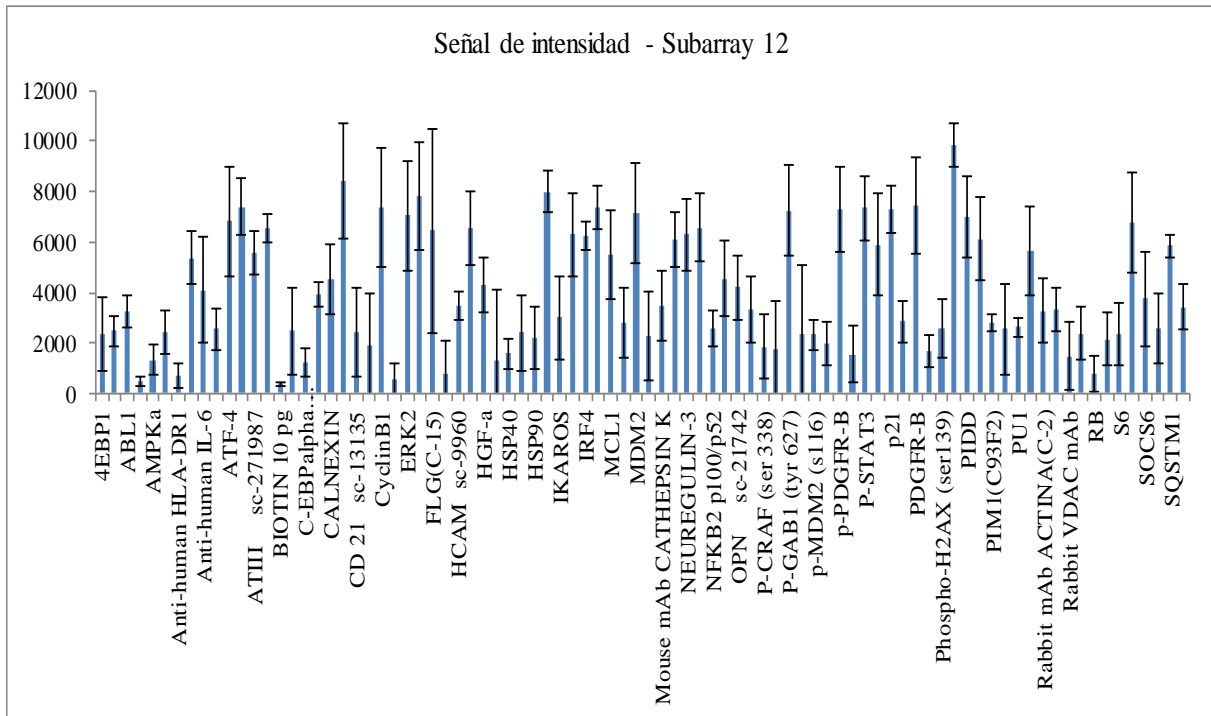
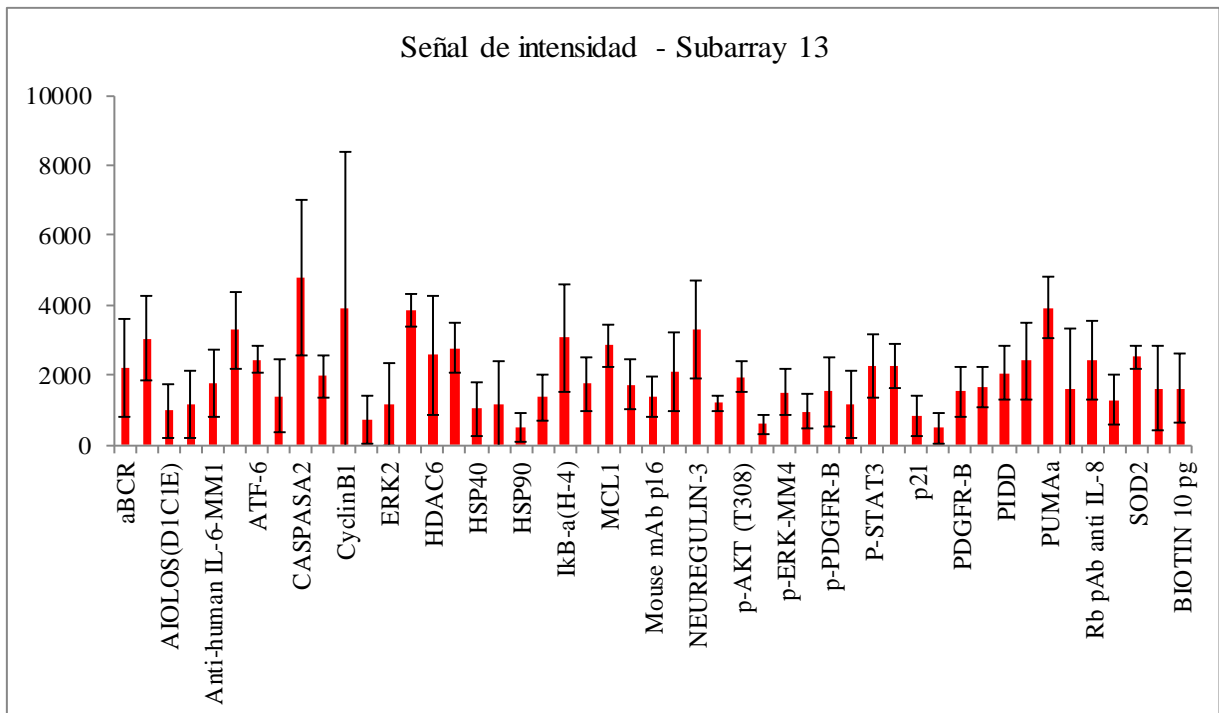
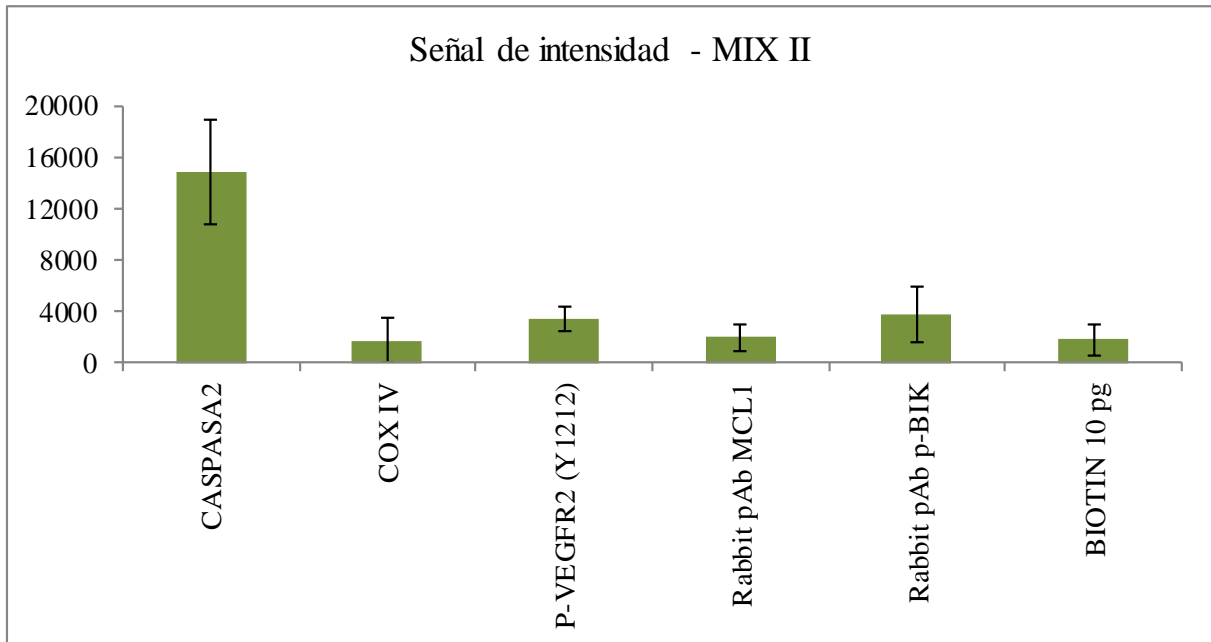


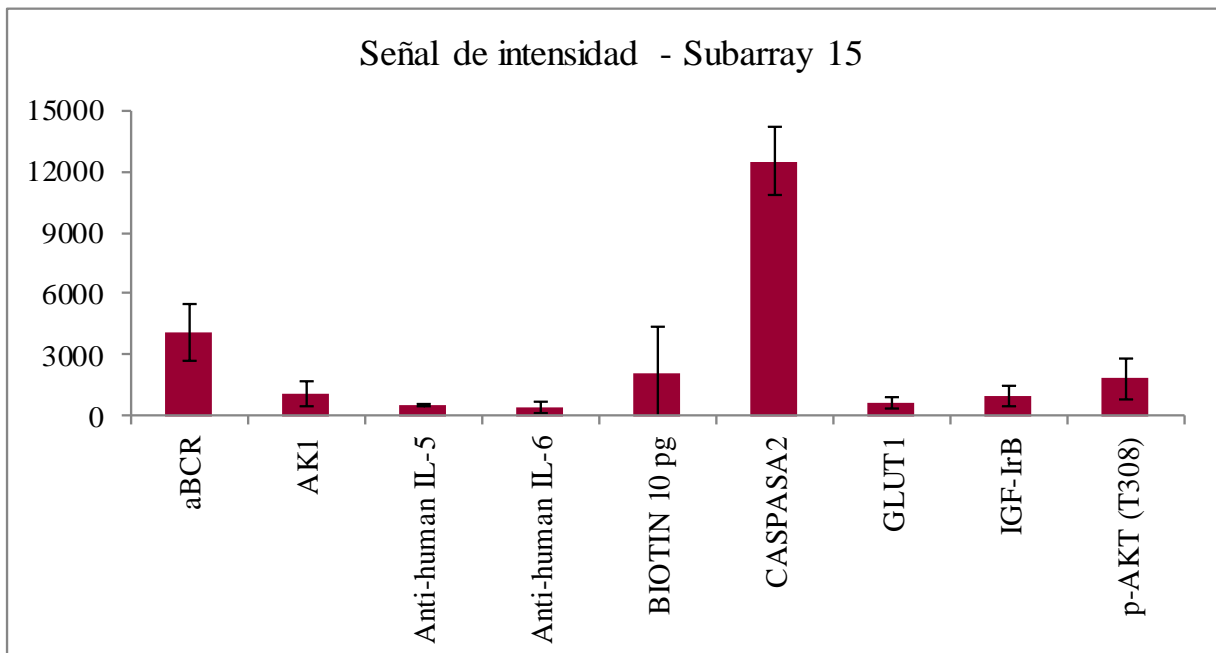
Gráfico 39. Señal de intensidad del subarray 13, microarray 16.



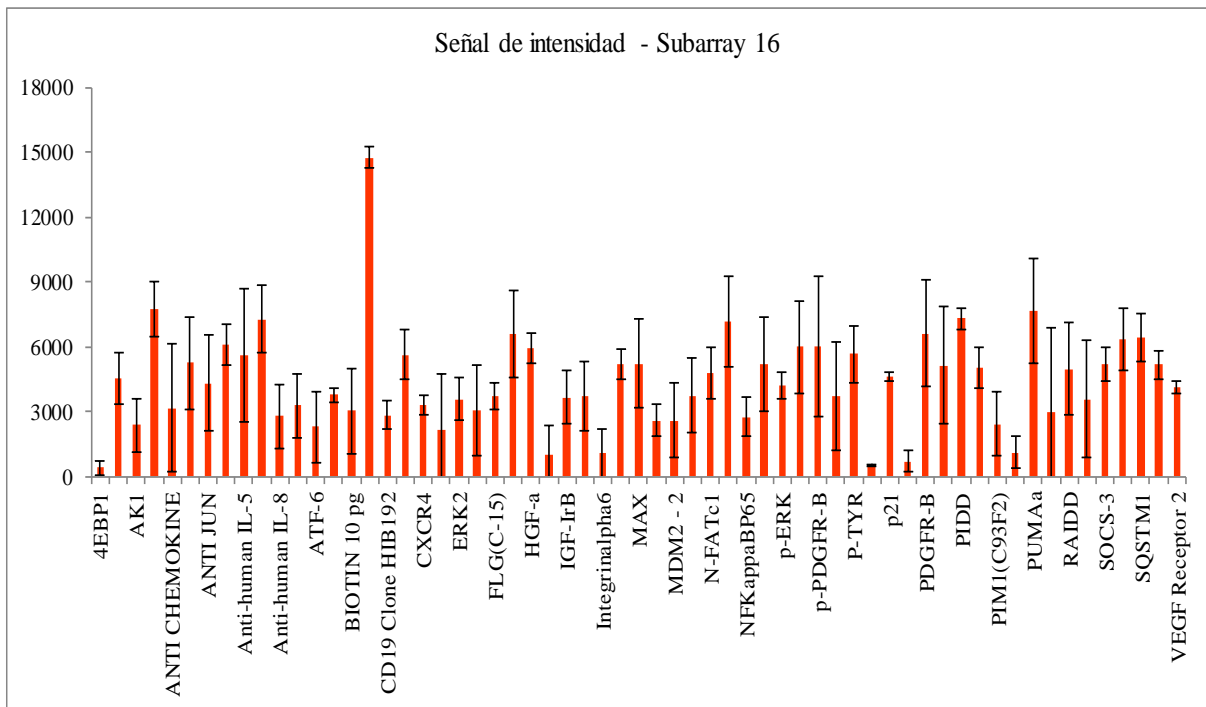
Gráfica 40. Señal de intensidad del MIX II, microarray 16.



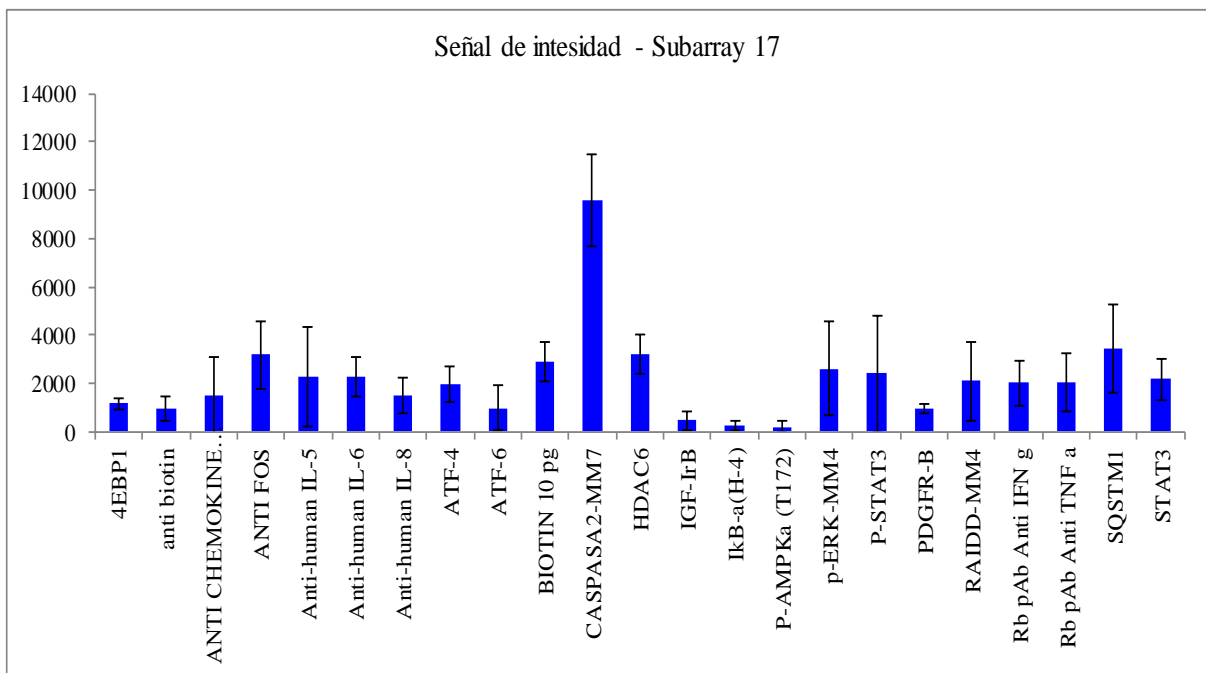
Gráfica 41. Señal de intensidad del subarray 15, microarray 18.



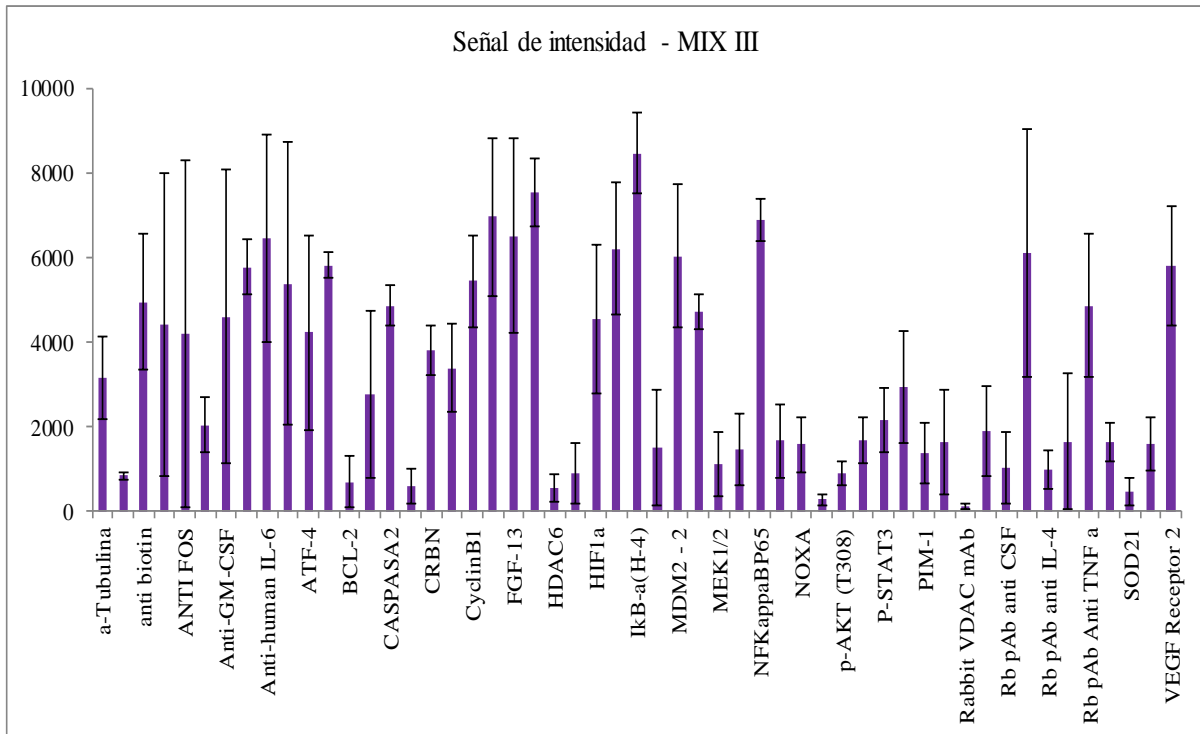
Gráfica 42. Señal de intensidad del subarray 16, microarray 18.



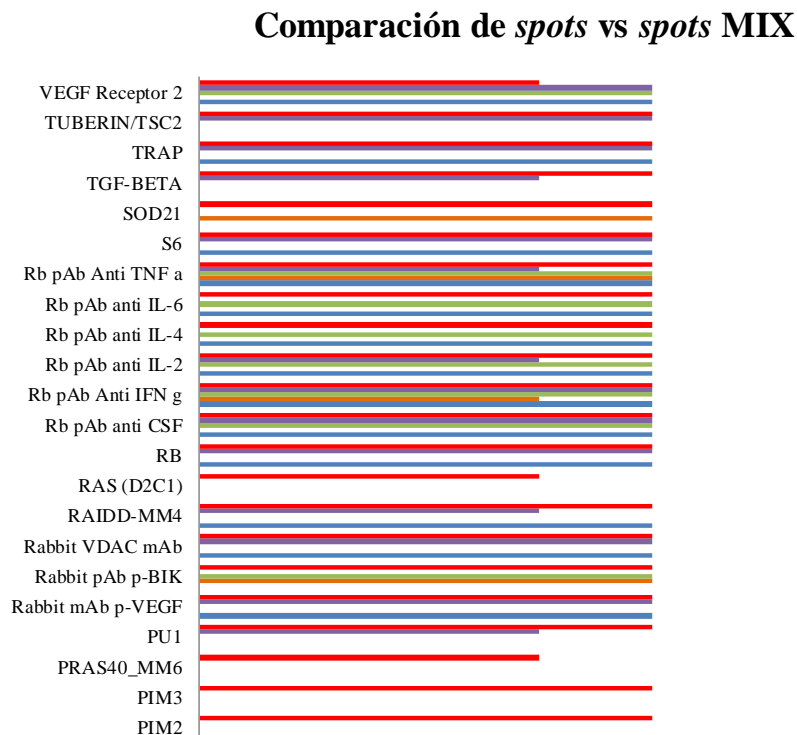
Gráfica 43. Señal de intensidad del subarray 17, microarray 18.

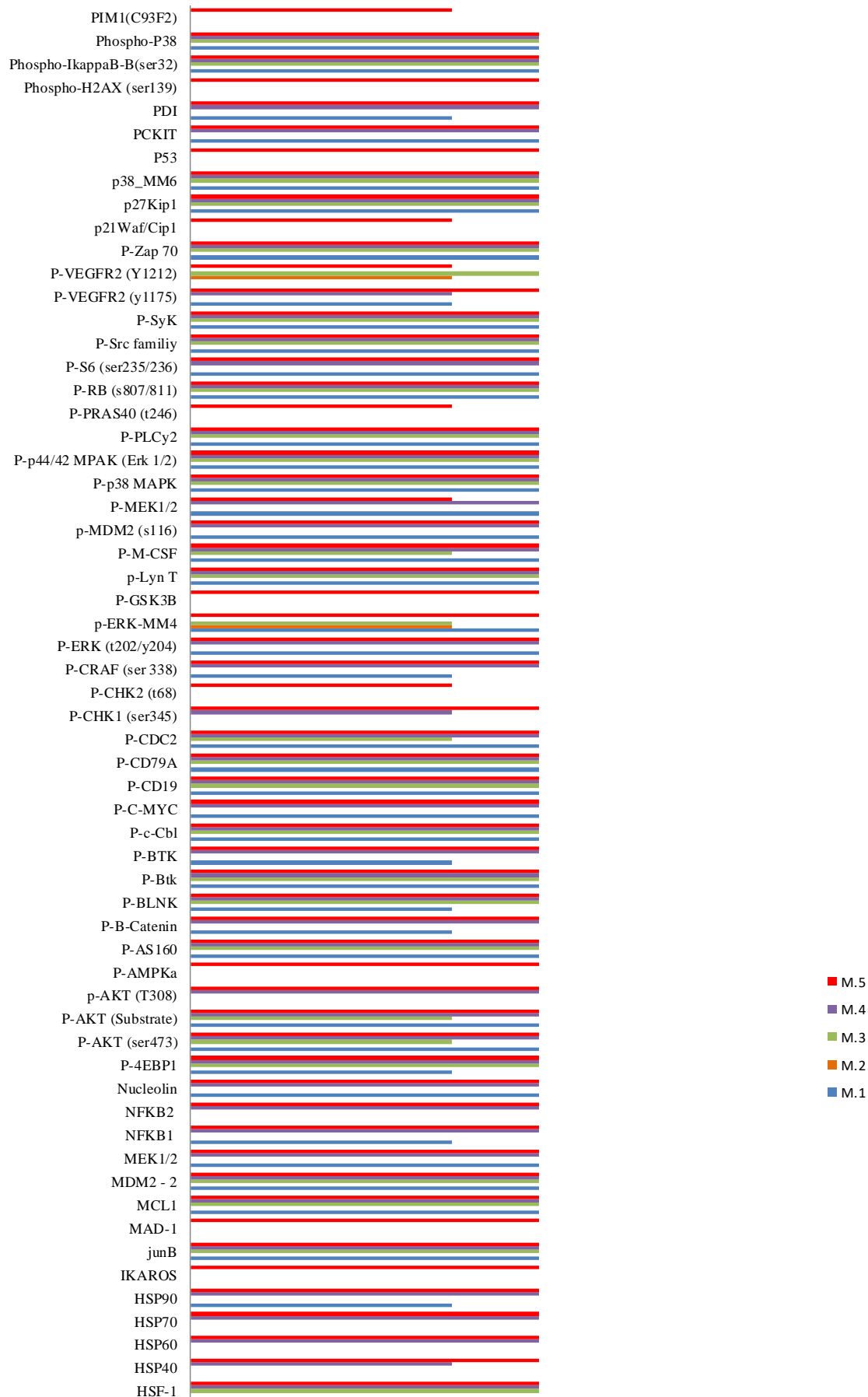


Gráfica 44. Señal de intensidad del MIX III, microarray 16.



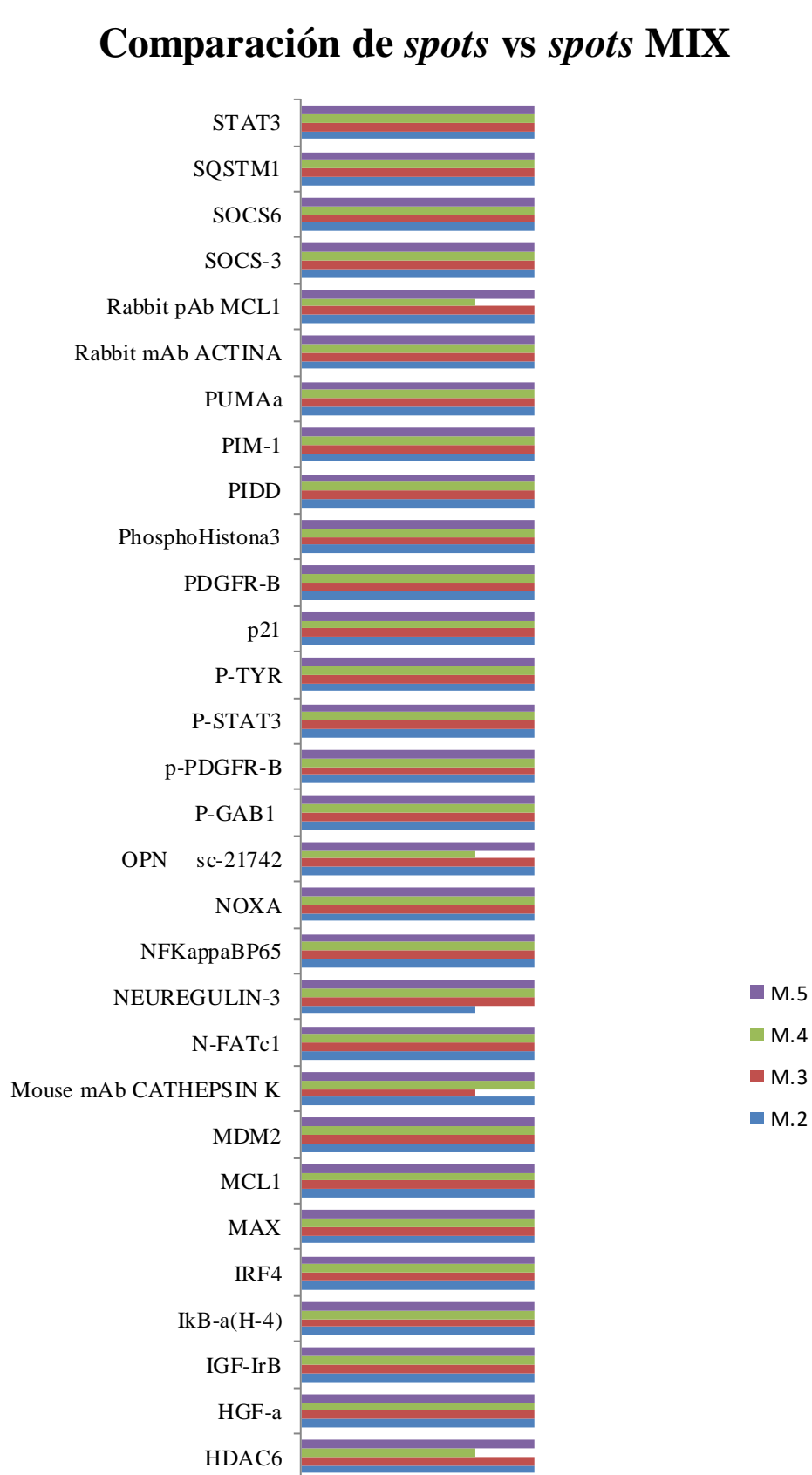
Gráfica 45. Número de spots de los subarrays del microarray 11, en comparación con el MIX (Muestra 5).

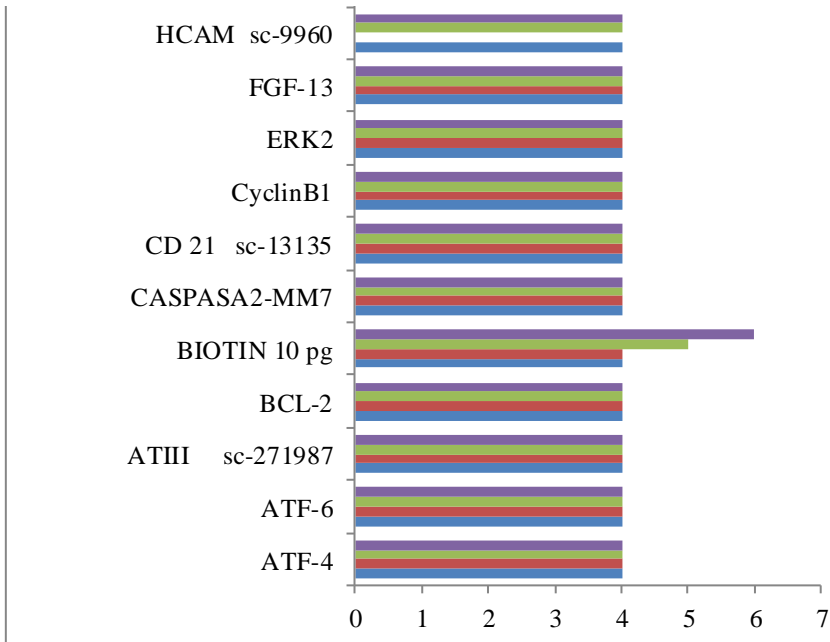




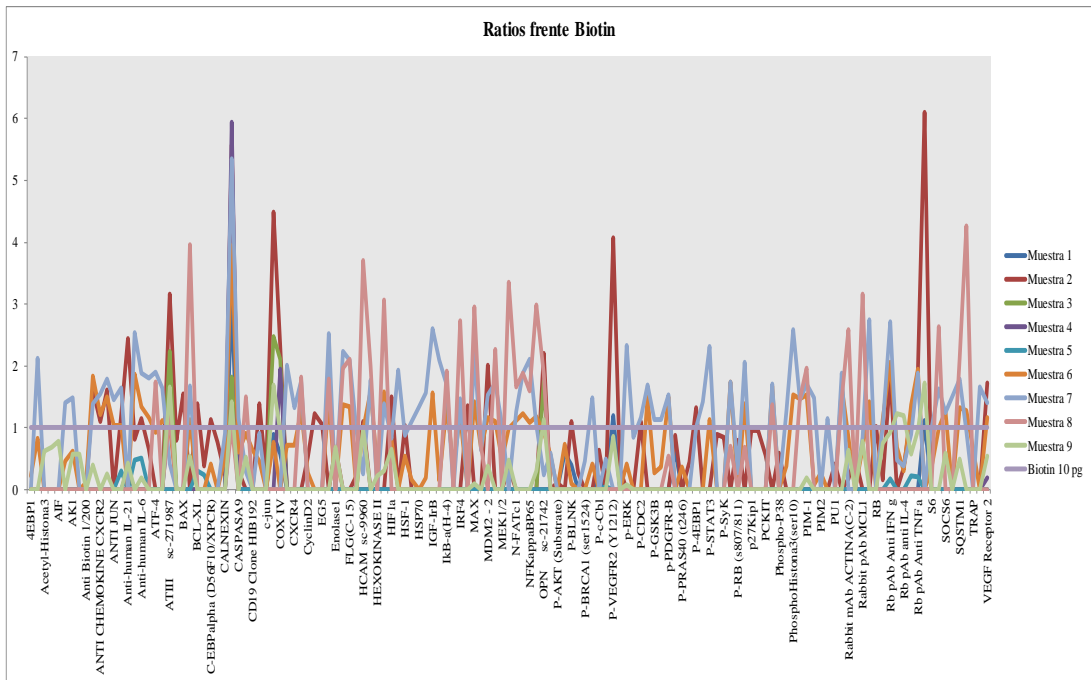


Gráfica 46. Número de *spots* de los subarrays del microarray 22, en comparación con el MIX (Muestra 5).

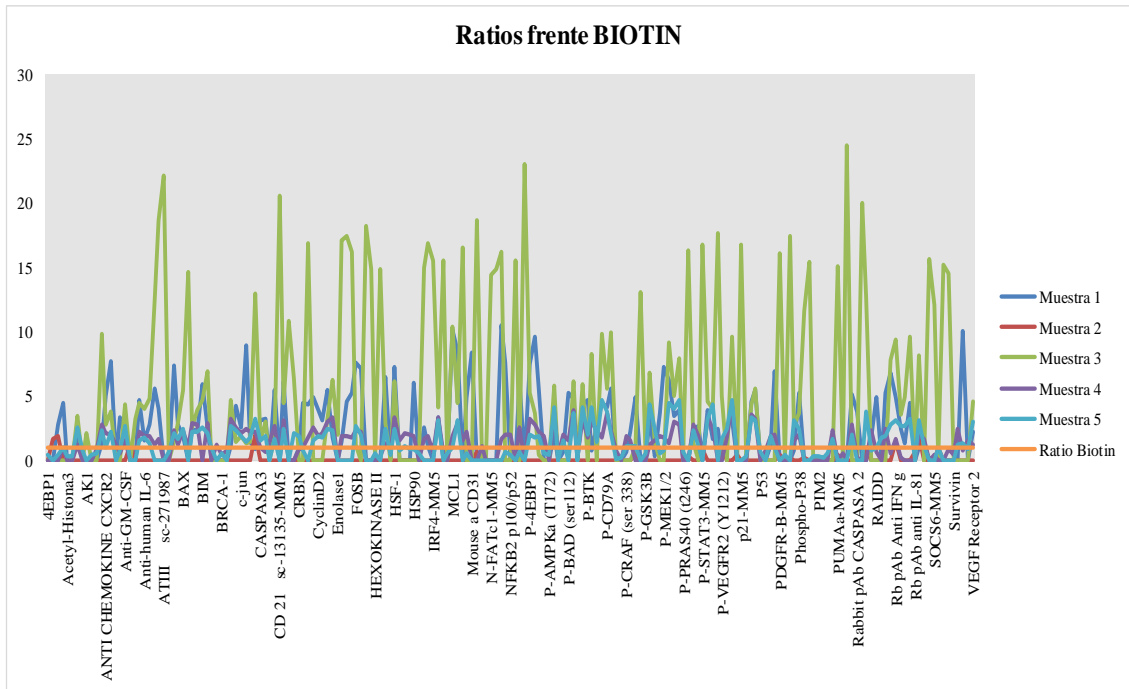




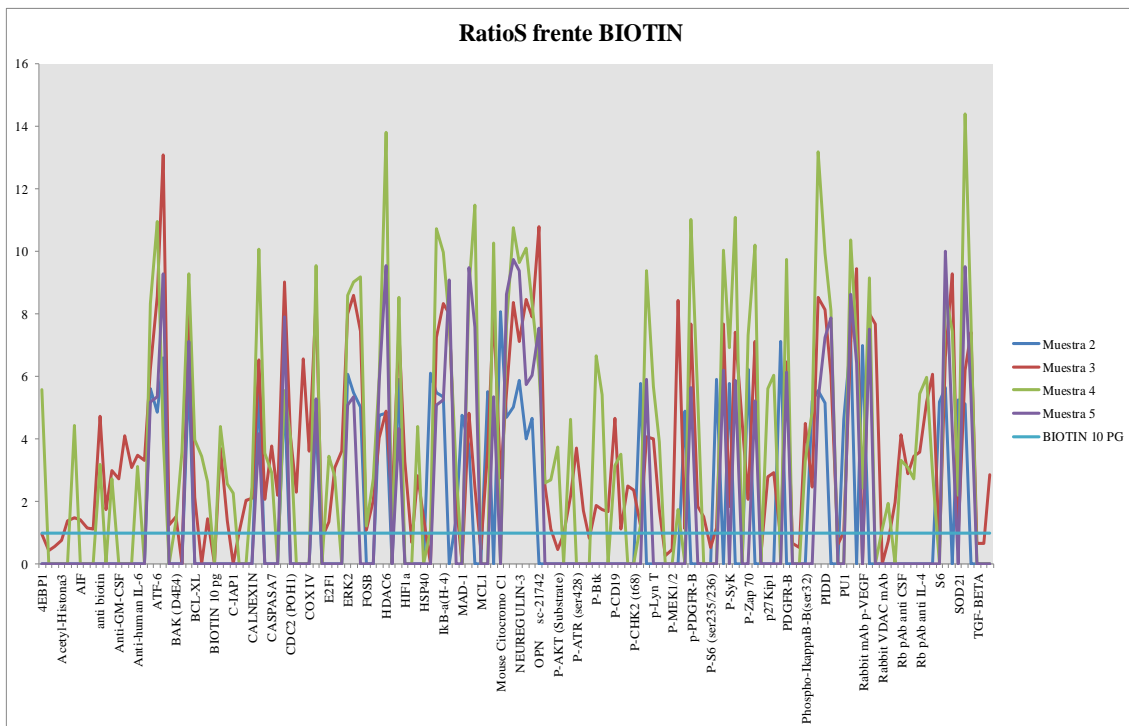
Gráfica 47. “House-keeping”: ratios frente BIOTIN, primer conjunto de microarrays.



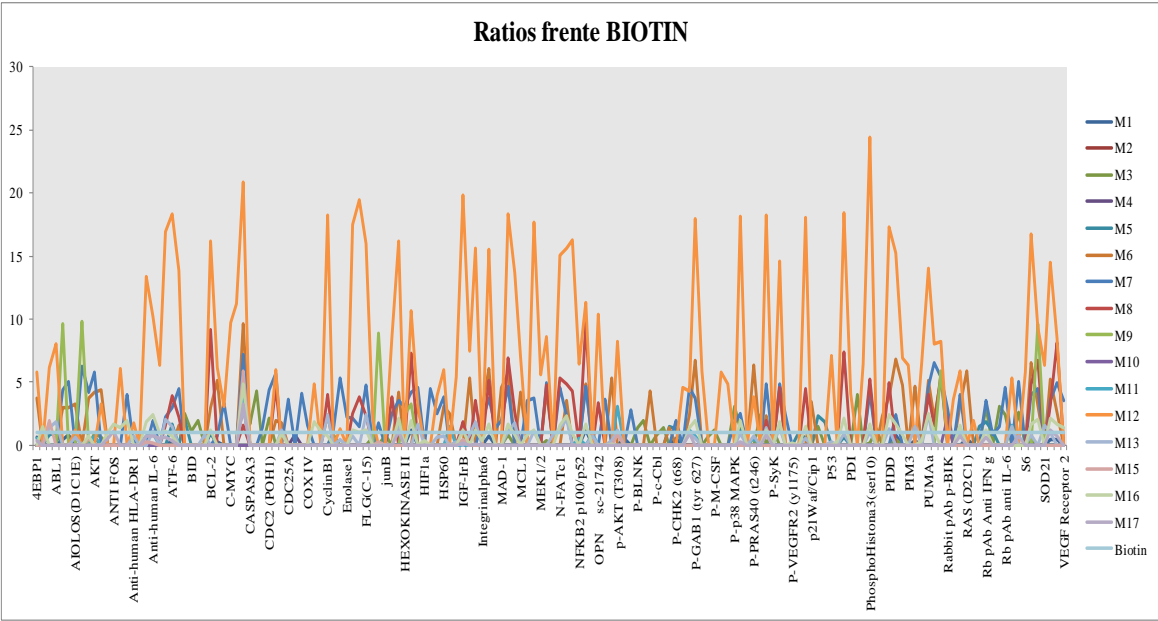
Gráfica 48. "House-keeping": ratios frente BIOTIN, microarray 11.



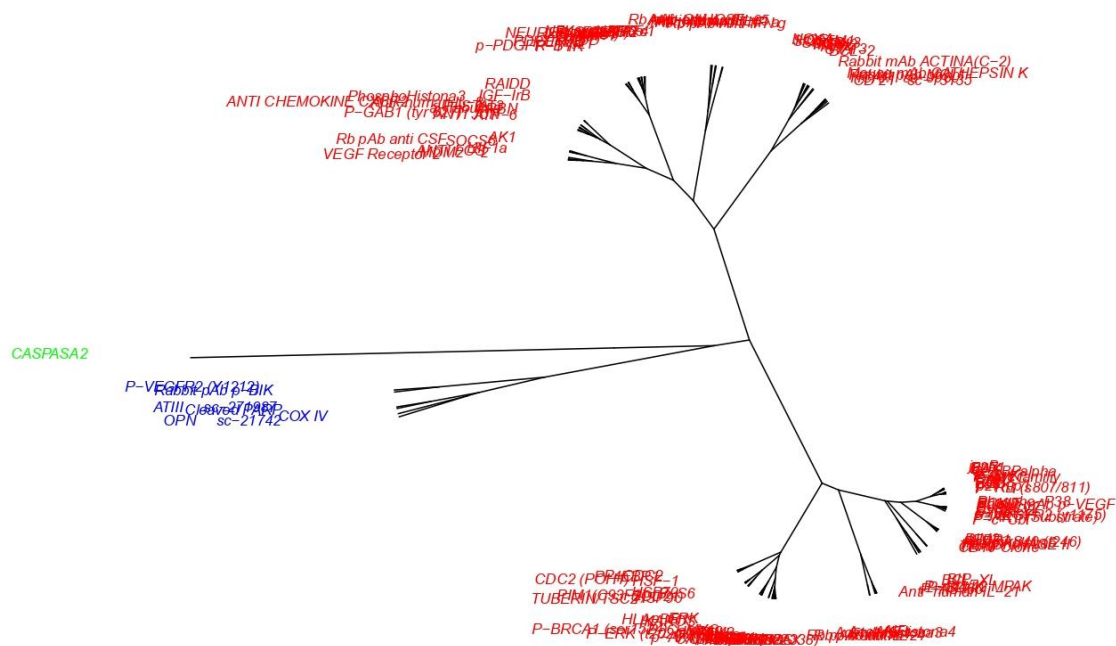
Gráfica 49. "House-keeping": ratios frente BIOTIN, microarray 22.



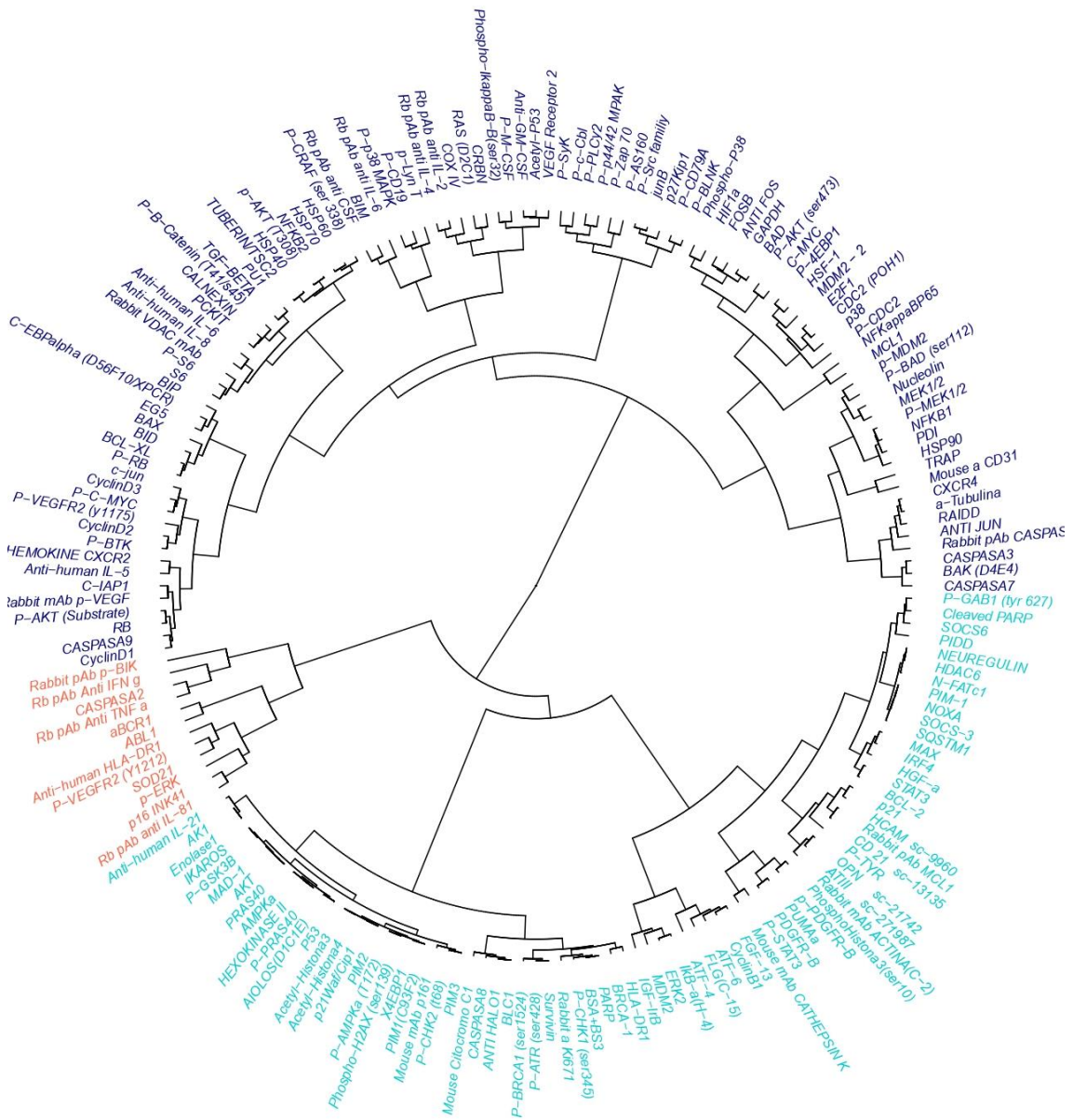
Gráfica 50. "House-keeping": ratios frente BIOTIN, tercer conjunto de microarrays.



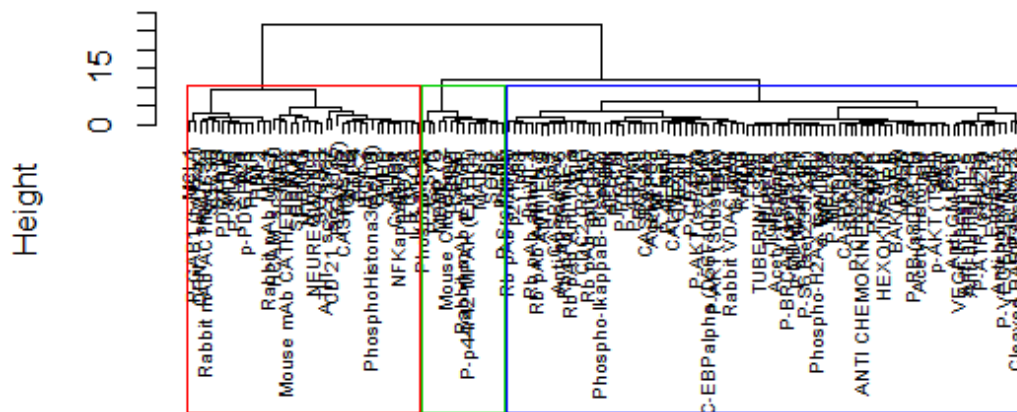
Gráfica 51. "Cluster Dendograma" primer conjunto de microarrays.



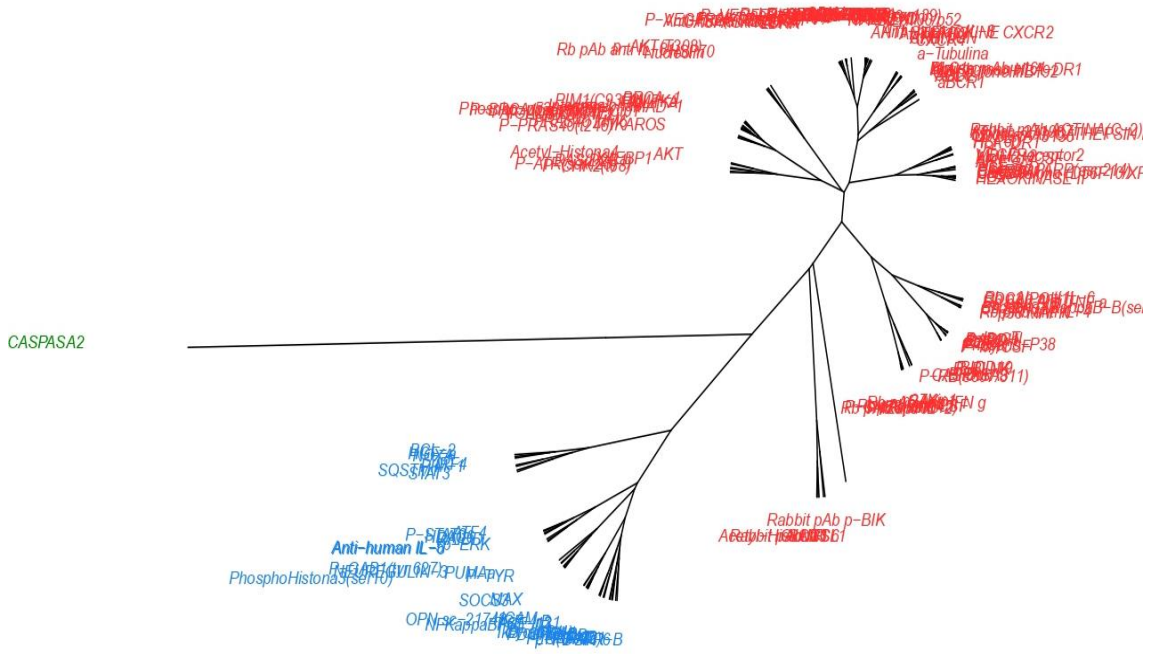
Gráfica 52. "Cluster Dendograma" microarray 11.



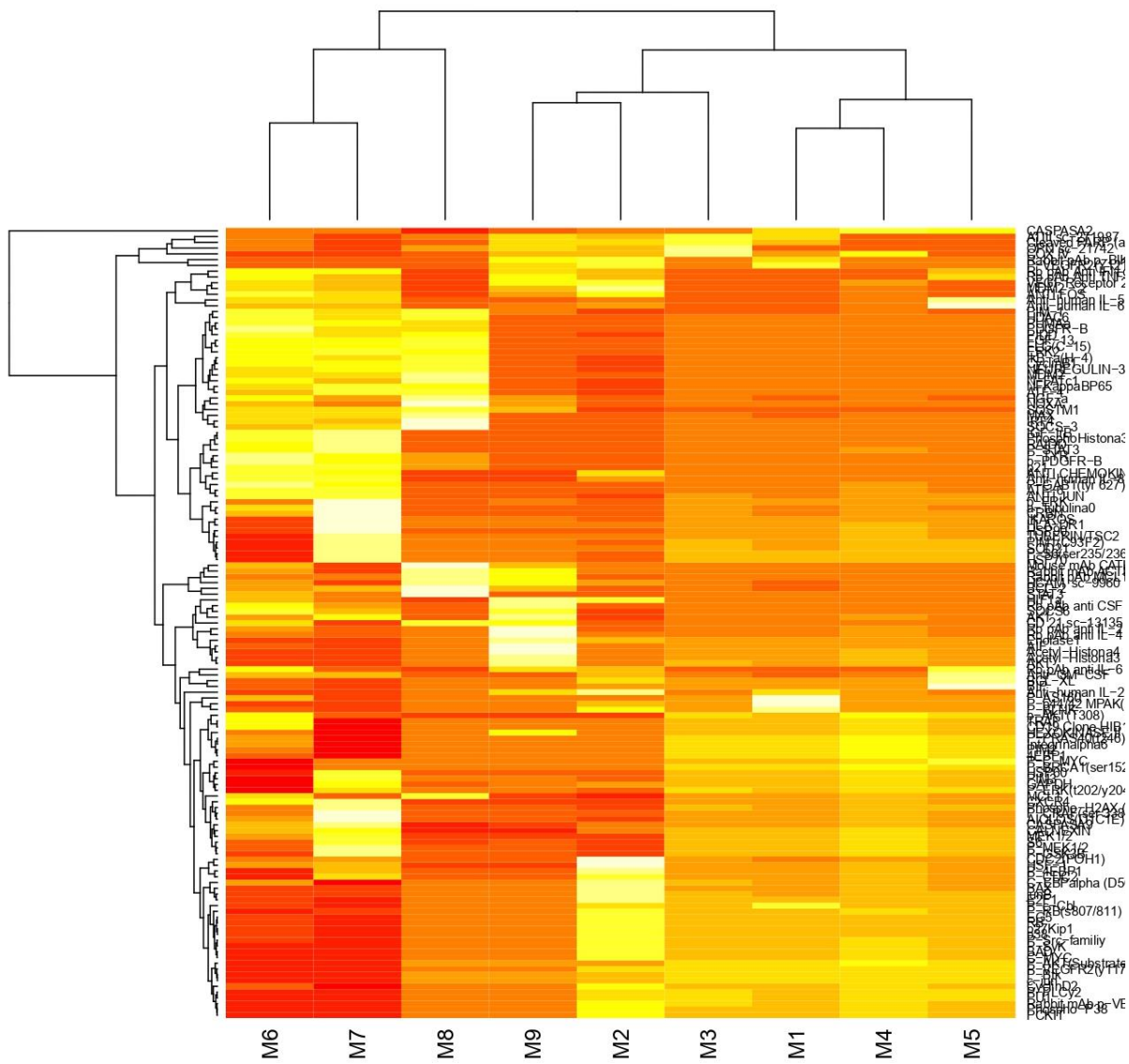
Gráfica 53. "Cluster Dendograma" microarray 22.



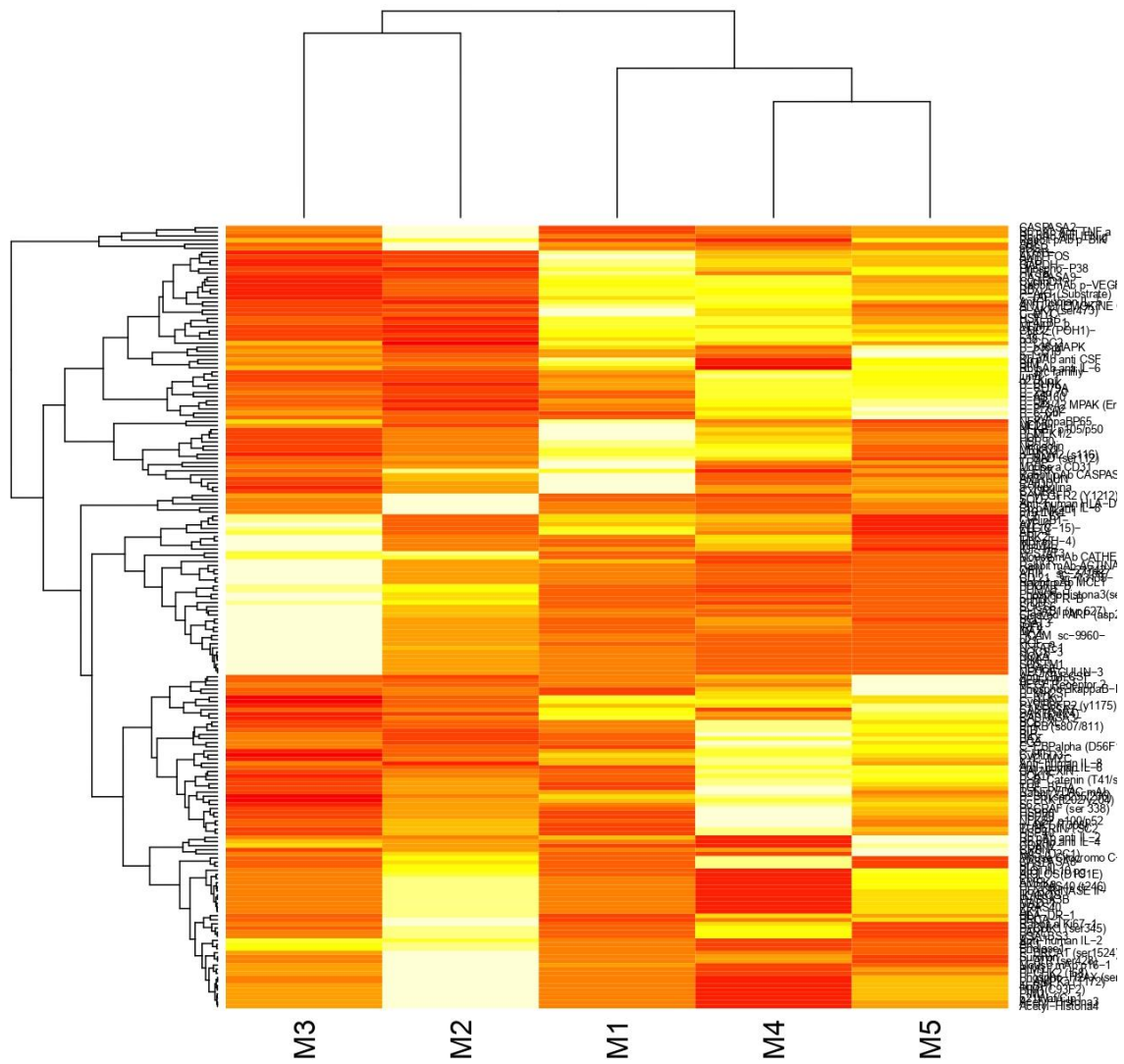
Gráfica 54. "Cluster Dendograma" tercer conjunto de microarrays.



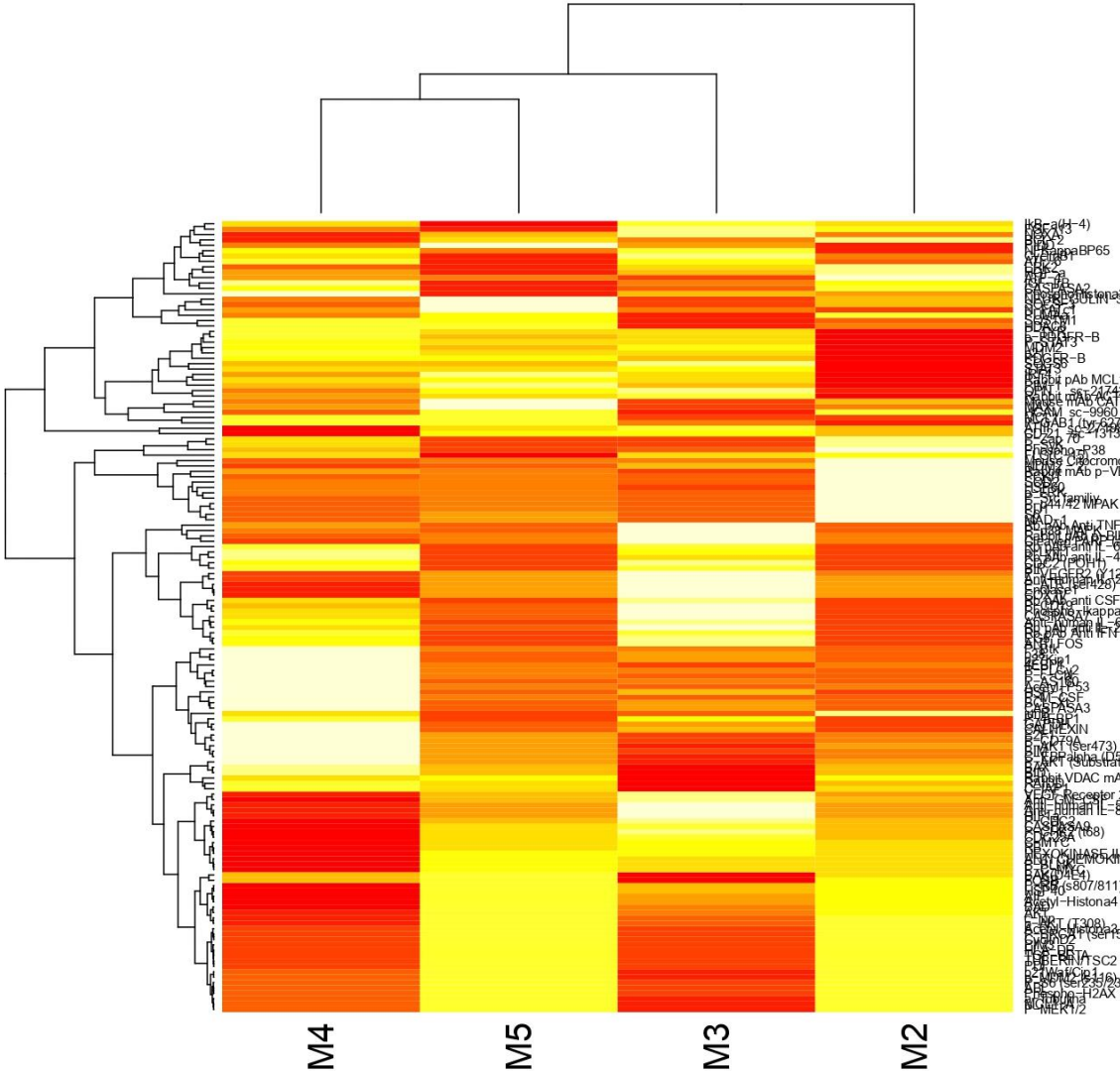
Gráfica 55. "Heatmap" primer conjunto de microarrays.



Gráfica 56. "Heatmap" microarray 11.



Gráfica 57. "Heatmap" microarray 22.



Gráfica 58. "Heatmap" tercer conjunto de microarrays.

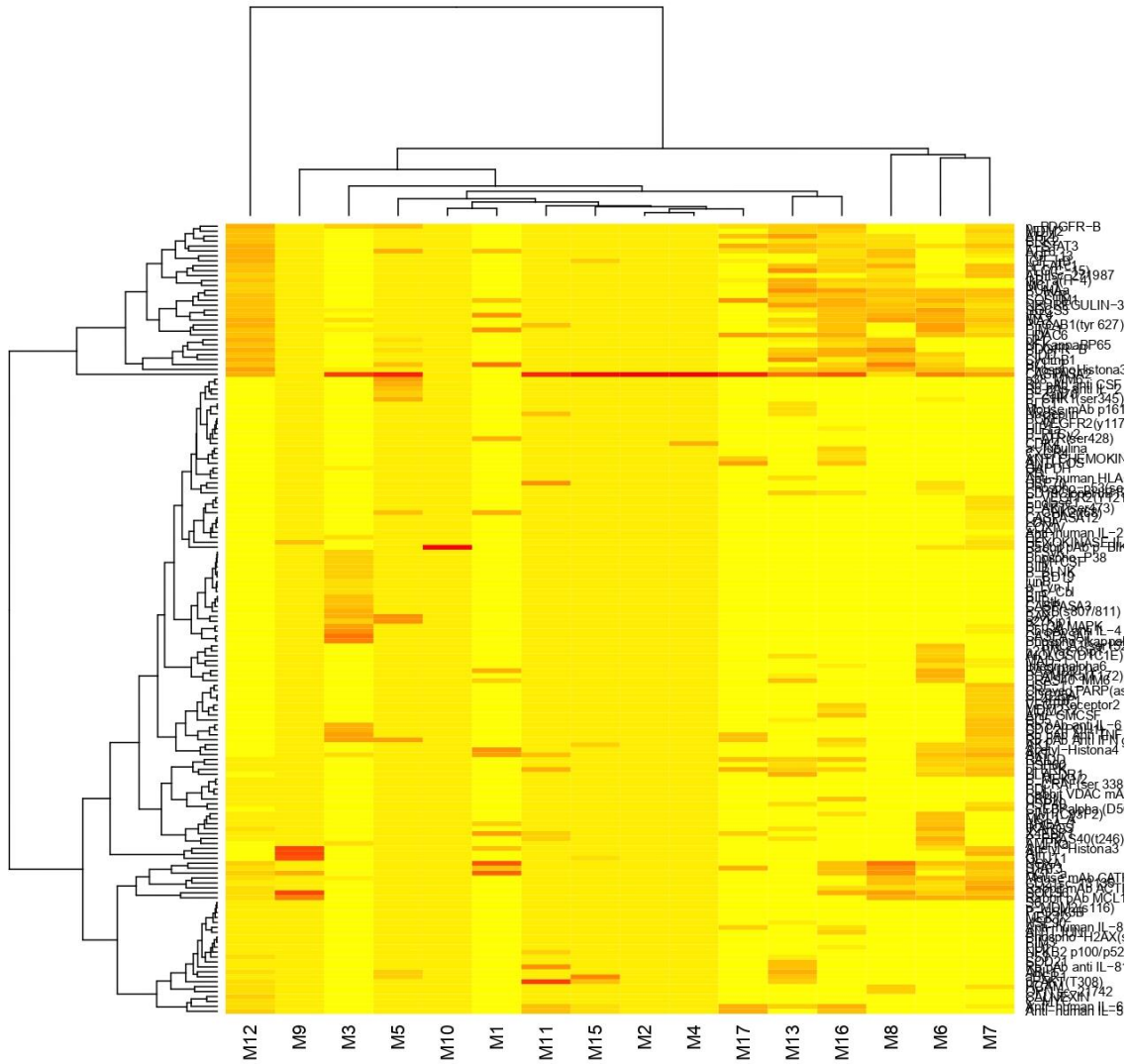


Tabla 53. Cruce de resultados con la base de datos de UniProt y NeXtProt para obtener el nombre canónico y con la base de datos obtenida a partir de espectrómetro de masas: subarray 1, microarray 3.

Listado de proteínas	Canonical Name	Intensidad	Spots	MS/MS	Uniprot	Chromosome	Peptid-Count
Anti-human IL-2	P60568	2413	3	X			
ATIII sc-271987	P01008	7447,125	8	P01008	ANT3_HUMAN	1	12
Cleaved PARP (asp214)	P09874	6356,2	5	P09874	PARP1_HUMAN	1	23
COX IV	P13073	4101,75	4	P13073	COX4I_HUMAN	16	2
P-AS160	O60343	4514,33333	3	X			
P-BLNK	Q8WV28	3093,33333	3	Q8WV28	BLNK_HUMAN	10	1
P-c-Cbl	P22681	1520	3	X			
P-p42 MPAK (Erk 1/2)	Q9BQA1	4821	3	Q9BQA1	MEP50_HUMAN	1	2
P-p44 MPAK (Erk 1/2)	Q8IZL9	4821	3	X			
P-VEGFR2 (Y1212)	P35968	8152,83333	6	X			
Rabbit pAb p-BIK	Q13323	6975,25	8	X			
CASPASA2-MM7	P42575	25285,25	8	X			

Tabla 54. Cruce de resultados con la base de datos de UniProt y NeXtProt para obtener el nombre canónico y con la base de datos obtenida a partir de espectrómetro de masas: subarray 2, microarray 3.

Listado de proteínas	Canonical Name	Intensidad	Spots	MS/MS	UniProt	Chromosome	Peptid-Count
ANTI CHEMOKINE	P25025	3178,75	4	X			
ANTI FOS	P01100	4616,4	5	X			
Anti-GM-CSF	P04141	3482,33333	6	X			
Anti-human IL-21	P60568	7007,625	8	X			
Anti-human IL-5	P05113	2345,5	4	X			
Anti-human IL-6	P05231	3281,75	4	X			
Anti-human IL-8	P10145	1897,8	5	X	ANT3_HUMAN		
ATIII sc-271987	P01008	9070,28571	7	P01008		1	12
BAD	Q92934	2304,5	4	X	BAX_HUMAN		
BAX	Q07812	4433,25	4	Q07812		19	6
BCL-XL	Q07817	3990,4	5	X	GRP78_HUMAN		
BIP	P11021	1109,75	4	P11021		9	17
C-EBPalpha	Q15125	3240,4	5	X			
c-jun	P05412	737	3	X			
C-MYC	P01106	2189,66667	3	X	CALX_HUMAN		
CALNEXIN	P27824	672	4	P27824		5	16
CASPASA2	P42575	15982,25	8	X			
CASPASA9	P55211	850,6	5	X			
CDC2 (POH1)	P06493	4005,5	6	X	PARP1_HUMAN		
Cleaved PARP	P09874	12888,625	8	P09874	COX4I_HUMAN	1	23
COX IV	P13073	6632,57143	7	P13073		16	2
CyclinD2	P30279	1513,25	4	X			
E2F1	Q01094	3529	4	X			
EG5	P52732	3029,66667	6	X	ENOA_HUMAN		
Enolase 1	P06733	1957,5	4	P06733	G3P_HUMAN	1	21
GAPDH	P04406	640,8	5	P04406		12	31
HCAM sc-9960	Q9UDF2	3166,75	4	X			
HIF1a	Q16665	4316,75	4	X			
HSF-1	Q00613	2471,83333	7	X			
junB	P17275	3896,5	4	X			
MDM2 - 2	Q00987	5768,6	5	X			
Mouse mAb CATHEPSIN	P43235	1012,25	4	X	OSTP_HUMAN		
OPN sc-21742	P10451	6310,5	6	P10451	4EBP1_HUMAN	4	1
P-4EBP1	Q13541	3794,4	5	Q13541		8	1
P-AKT (Substrate)	P31749	329	3	X	BLNK_HUMAN		
P-BLNK	Q8WV28	3172,8	5	Q8WV28	BTK_HUMAN	10	1
P-Btk	Q06187	771,333333	6	Q06187		X	10

P-c-Cbl	P22681	1811,83333	6	X			
P-CDC2	P06493	3140,875	8	X	MEP50_HUMAN		
P-p42 MPAK (Erk 1/2)	Q9BQA1	2532,25	4	Q9BQA1		1	2
P-p44 MPAK (Erk 1/2)	Q8IZL9	2532,25	4	X	PLCG2_HUMAN		
P-PLCy2	P16885	1299,5	6	P16885		16	26
P-RB (s807/811)	P06400	2292,66667	6	X			
P-Src family	P12931	2560,33333	3	X	KSYK_HUMAN		
P-SyK	P43405	2449	3	P43405		9	28
P-VEGFR2 (y1175)	P35968	960,5	12	X			
P-VEGFR2 (Y1212)	P35968	11669,5	12	X	CDN1B_HUMAN		
p27Kip1	P46527	2767	3	P46527		12	4
p38_MM6	Q15759	2763,33333	3	X			
PCKIT	P10721	1598,25	4	X			
Phospho-P38	Q15759	1690,33333	3	X			
PU1	P17947	1179	3	X			
Rabbit mAb ACTINA	P63267	516,66667	3	X			
Rabbit mAb p-VEGF	P15692	1506,75	4	X			
Rabbit pAb p-BIK	Q13323	17507,875	8	X			
RB	P06400	2939,4	5	X			
Rb pAb anti CSF	P09603	445,333333	3	X			
Rb pAb Anti IFN g	P01579	5316	6	X			
Rb pAb anti IL-4	P05112	1015,75	4	X			
Rb pAb anti IL-6	P05231	3506,25	4	X			
Rb pAb Anti TNF a	P01375	5443,83333	6	X			
VEGF Receptor 2	P15692	4934	4	X			

Tabla 54. Cruce de resultados con la base de datos de UniProt y NeXtProt para obtener el nombre canónico y con la base de datos obtenida a partir de espectrómetro de masas: subarray 3, microarray 3.

Listado de proteínas	Canonical Name	Intensidad	Spots	MS/MS	UniProt	Chromosome	Peptid-Count
ATIII sc-271987	P01008	4840	4	P01008	ANT3_HUMAN	1	12
CASPASA2	P42575	3945,75	4	X			
Cleaved PARP	P09874	5371	4	P09874	PARP1_HUMAN	1	23
COX IV	P13073	4570,75	4	P13073	COX41_HUMAN	16	2
OPN sc-21742	P10451	3820,66667	3	P10451	OSTP_HUMAN	4	1

Tabla 55. Cruce de resultados con la base de datos de UniProt y NeXtProt para obtener el nombre canónico y con la base de datos obtenida a partir de espectrómetro de masas: subarray 4, microarray 4.

Listado de proteínas	Canonical Name	Intensidad	Spots	MS/MS	UniProt	Chromosome	Peptid-Count
CASPASA2	P42575	23436,63	8	X			
COX IV	P13073	7670,67	3	P13073	COX41_HUMAN	16	0
VEGF Receptor 2	P15692	729	3	X			

Tabla 56. Cruce de resultados con la base de datos de UniProt y NeXtProt para obtener el nombre canónico y con la base de datos obtenida a partir de espectrómetro de masas: subarray 5, microarray 4.

Listado de proteínas	Canonical Name	Intensidad	Spots	MS/MS	UniProt	Chromosome	Peptid-Count
Anti-GM-CSF	P04141	2214,66667	3	X			
Anti-human IL-5	P05113	3575,25	4	X			
Anti-human IL-6	P05231	3774,33333	3	X			
BCL-XL	Q07817	2225,75	4	X			

BIP	P11021	1835	3	P11021	GRP78_HUMAN	9	17
CASPASA2	P42575	9859,25	8	X			
P-C-MYC	P01106	381	3	X			
Rb pAb Anti IFN g	P01579	1308,66667	3	X			
Rb pAb anti IL-6	P05231	1648,25	4	X			
Rb pAb Anti TNF a	P01375	1523,66667	3	X			

Tabla 56. Cruce de resultados con la base de datos de UniProt y NeXtProt para obtener el nombre canónico y con la base de datos obtenida a partir de espectrómetro de masas: subarray 6, microarray 5.

Listado de proteínas	Canonical Name	Intensidad	Spots	MS/MS	UniProt	Chromosome	Peptid-Count
4EBP1	Q13541	1552,6	5	Q13541	4EBP1_HUMAN	8	1
a-Tubulina	Q71U36	5700,25	8	X			
AIOLOS(D1C1E)	Q9UKT9	3156	3	Q9UKT9	IKZF3_HUMAN	17	2
AK1	P00568	4294,4	5	P00568	KAD1_HUMAN	9	6
ANTI CHEMOKINE	P25025	8400	7	X			
ANTI FOS	P01100	10351,63	8	X			
ANTI JUN	P05412	7169,8	5	X			
Anti-GM-CSF	P04141	7199,75	4	X			
Anti-human IL-5	P05113	12908,71	7	X			
Anti-human IL-6	P05231	9311,6	5	X			
Anti-human IL-8	P10145	8027,5	8	X			
ATF-4	P18848	6402,63	8	X			
ATF-6	P18850	7769	7	X			
ATIII sc-271987	P01008	7115,57	7	P01008	ANT3_HUMAN	1	12
BCL-2	P10415	7799	7	P10415	BCL2_HUMAN	18	2
C-EBPalpha	Q15125	2918,33	3	X			
CALNEXIN	P27824	3556,33	3	P27824	CALX_HUMAN	5	16
CASPASA2	P42575	27260,75	8	X			
CASPASA9	P55211	4140,33	3	X			
CD 21 sc-13135	Q9HBE5	6306,5	8	X			
CD19 Clone HIB192	P15391	4370	4	X			
CDC2 (POH1)	P06493	3249,67	3	X			
Cleaved PARP (asp214)	P09874	5261,25	4	P09874	PARP1_HUMAN	1	23
CRBN	Q96SW2	5002,43	7	X			
CXCR4	P61073	5018,86	7	P61073	CXCR4_HUMAN	2	1
CyclinB1	P14635	8865	8	X			
CyclinD2	P30279	1833,33	3	X			
ERK2	P28482	10201,75	8	P28482	MK01_HUMAN	22	6
FGF-13	Q92913	9487	8	X			
FLG(C-15)	Q9UDF2	9286,38	8	X			
HCAM sc-9960	P16070	6764,33	3	P16070	CD44_HUMAN	11	7
HDAC6	Q9UBN7	10996,4	5	X			
HEXOKINASE II	P52789	2325,33	3	X			
HGF-a	Q04756	10944,6	5	Q04756	HGFA_HUMAN	4	8
HIF1a	Q16665	5612,86	7	X			
HSF-1	Q00613	3772	3	X			
HSP60	P10809	1104	3	P10809	CH60_HUMAN	2	25
HSP90	P07900	1298	3	P07900	HS90A_HUMAN	14	18
IGF-IrB	P08069	10840,29	7	X			
IKAROS	Q13422	960,33	3	Q13422	IKZF1_HUMAN	7	3
IkB-a(H-4)	P25963	9464,13	8	X			
Integrinalpha6	P23229	2419	3	X			
IRF4	Q15306	8296,57	7	Q15306	IRF4_HUMAN	6	1
MAX	P61244	9829,14	7	P61244	MAX_HUMAN	14	1
MCL1	Q07820	4490,8	5	X			
MDM2 - 2	Q00987	8067,5	6	X			
MDM2	Q00987	7596,38	8	X			
MEK1	Q02750	3305,75	4	Q02750	MP2K1_HUMAN	15	2
MEK2	P36507	3305,75	4	P36507	MP2K2_HUMAN	19	2
Mouse mAb CATHEPSIN	P43235	6812	6	X			

N-FATc1	O95644	7686,71	7	X				
NEUREGULIN-3	P56974	8501,88	8	X				
NFKappaBP65	Q04206	7484,67	6	Q04206	TF65_HUMAN	11		2
NOXA	Q13794	8134,29	7	X				
OPN sc-21742	P10451	6369,6	5	P10451	OSTP_HUMAN	4		1
p-AKT (T308)	P31749	3911	4	X				
P-AS160	O60343	5115,5	4	X				
P-BLNK	Q8WV28	683,67	3	Q8WV28	BLNK_HUMAN	10		1
P-CRAF (ser 338)	P04049	2823	3	X				
p-ERK	P28482	13870,86	7	P28482	MK01_HUMAN	22		6
P-GAB1 (tyr 627)	Q13480	10358,86	7	X				
P-GSK3B	P49841	1920,75	4	X				
P-MEK1	Q02750	2525,67	3	Q02750	MP2K1_HUMAN	15		2
P-MEK2	P36507	2525,67	3	P36507	MP2K2_HUMAN	19		2
p-PDGFR-B	P09619	10356,25	8	X				
P-PRAS40 (t246)	Q96B36	2517	4	X				
P-STAT3	P40763	7859,25	8	P40763	STAT3_HUMAN	17		4
P-TYR	P14679	12024,57	7	X				
p21	P38936	9612	8	X				
PDGFR-B	P09619	11595,88	8	X				
Phospho-H2AX (ser139)	P16104	2681,25	4	X				
PhosphoHistona3(ser10)	O15379	10583,17	6	X				
PIDD	Q9HB75	10161,88	8	X				
PIM-1	P11309	10618,33	6	X				
PIM1(C93F2)	P11309	506	3	X				
PIM2	Q9P1W9	1919	6	X				
PUMAA	Q969G8	11594,14	3	X				
Rabbit mAb ACTINA(C-2)	P63267	5792,57	6	X				
Rabbit pAb MCL1	Q07820	4593,4	7	X				
RAIDD	P78560	9815,33	7	X				
Rb pAb anti CSF	P09603	7959	5	X				
Rb pAb Anti IFN g	P01579	14215,83	6	X				
Rb pAb anti IL-2	P60568	4761	3	X				
Rb pAb anti IL-4	P05112	2154,67	6	X				
Rb pAb anti IL-6	P05231	9475,43	5	X				
Rb pAb Anti TNF a	P01375	13445,83	3	X				
S6	P62753	2278,75	7	P62753	RS6_HUMAN	9		7
SOCS-3	O14543	6890,29	6	X				
SOCS6	O14544	8861	4	X				
SQSTM1	Q13501	9142,5	8	Q13501	SQSTM_HUMAN	5		1
STAT3	P40763	8856,43	7	P40763	STAT3_HUMAN	17		4
TRAP	P13686	4518,75	4	X				
VEGF Receptor 2	P15692	8082,4	5	X				

Tabla 57. Cruce de resultados con la base de datos de UniProt y NeXtProt para obtener el nombre canónico y con la base de datos obtenida a partir de espectrómetro de masas: subarray 7, microarray 5.

Listado de proteínas	Canonical Name	Intensidad	Spots	MS/MS	UniProt	Chromosome	Peptid-Count
a-Tubulina	Q71U36	6218,25	4	X			
AIOLOS(D1C1E)	Q9UKT9	4096,67	3	Q9UKT9	IKZF3_HUMAN	17	2
AK1	P00568	4352	3	P00568	KAD1_HUMAN	9	6
ANTI CHEMOKINE CXC	P25025	4536,67	6	X			
ANTI FOS	P01100	5229,57	7	X			
ANTI JUN	P05412	4271,5	4	X			
Anti-GM-CSF	P04141	4805,75	8	X			
Anti-human IL-5	P05113	7425,5	8	X			
Anti-human IL-6	P05231	5509,25	8	X			
Anti-human IL-8	P10145	5269,17	6	X			
ATF-4	P18848	5568,67	6	X			
ATF-6	P18850	4795	6	X			
ATIII sc-271987	P01008	1217	3	P01008	ANT3_HUMAN	1	12
BCL-2	P10415	4909,14	7	P10415	BCL2_HUMAN	18	2

CALNEXIN	P27824	2655	3	P27824	CALX_HUMAN	5	16
CASPASA2	P42575	15631,14	7	X			
CASPASA9	P55211	3402	3	X			
CD 21 sc-13135	Q9HBE5	837,25	4	X			
CDC2 (POH1)	P06493	2657,8	5	X			
CRBN	Q96SW2	5875,25	4	X			
CXCR4	P61073	3871	3	P61073	CXCR4_HUMAN	2	1
CyclinB1	P14635	5155,63	7	X			
ERK2	P28482	7393,63	8	P28482	MK01_HUMAN	22	6
FGF-13	Q92913	6530,43	7	X			
FLG(C-15)	Q9UDF2	6111	5	X			
GAPDH	P04406	2810	3	P04406	G3P_HUMAN	12	31
HCAM sc-9960	P16070	767	3	P16070	CD44_HUMAN	11	7
HDAC6	Q9UBN7	5175,33	3	X			
HGF-a	Q04756	4084,86	6	Q04756	HGFA_HUMAN	4	8
HIF1a	Q16665	2439,17	7	X			
HLA-DR1	P04233	5661,25	6	P04233	HG2A_HUMAN	5	8
HSF-1	Q00613	2574,25	4	X			
HSP40	P25685	6142,5	4	P25685	DNJB1_HUMAN	19	3
HSP60	P10809	3245	4	P10809	CH60_HUMAN	2	25
HSP70	P0DMV8	3906,5	4	X			
HSP90	P07900	4598,5	4	P07900	HS90A_HUMAN	14	18
IGF-IrB	P08069	7599	5	X			
IKAROS	Q13422	6126,33	3	Q13422	IKZFI_HUMAN	7	3
IkB-a(H-4)	P25963	4962,75	8	X			
IRF4	Q15306	4315,33	6	Q15306	IRF4_HUMAN	6	1
MAX	P61244	6463,4	5	P61244	MAX_HUMAN	14	1
MCL1	Q07820	1319,52	3	X			
MDM2 - 2	Q00987	4461,25	8	X			
MDM2	Q00987	5029	7	X			
MEK1	Q02750	3067	4	Q02750	MP2K1_HUMAN	15	2
MEK2	P36507	3067	4	P36507	MP2K2_HUMAN	19	2
N-FATc1	O95644	3704	5	X			
NEUREGULIN-3	P56974	5505,8	5	X			
NFKappaBP65	Q04206	6156,4	5	Q04206	TF65_HUMAN	11	2
NOXA	Q13794	3027,83	6	X			
OPN sc-21742	P10451	720,67	4	P10451	OSTP_HUMAN	4	1
P-4EBP1	Q13541	2948,5	4	Q13541	4EBP1_HUMAN	8	1
p-AKT (T308)	P31749	1718,4	5	X			
P-BRCA1 (ser1524)	P38398	1367	3	X			
P-C-MYC	P01106	1462,33	3	X			
P-CDC2	P06493	3423	5	X			
P-CRAF (ser 338)	P04049	4340,67	3	X			
P-ERK (t202/y204)	P28482	2478	3	P28482	MK01_HUMAN	22	6
p-ERK	P28482	6814,57	7	P28482	MK01_HUMAN	22	6
P-GAB1 (tyr 627)	Q13480	4934,63	8	X			
P-GSK3B	P49841	3317,75	4	X			
P-MEK1	Q02750	3326,33	3	Q02750	MP2K1_HUMAN	15	2
P-MEK2	P36507	3326,33	3	P36507	MP2K2_HUMAN	19	2
p-PDGFR-B	P09619	4497,5	8	X			
P-RB (s807/811)	P06400	797,67	3	X			
P-S6 (ser235/236)	P62753	4157,75	4	P62753	RS6_HUMAN	9	7
P-STAT3	P40763	6773,63	8	P40763	STAT3_HUMAN	17	4
P-TYR	P14679	5112,14	7	X			
p21	P38936	6006,17	6	X			
PDGFR-B	P09619	4981,43	7	X			
Phospho-H2AX (ser139)	P16104	3754,33	6	X			
PhosphoHistona3(ser10)	O15379	7583,29	7	X			
PIDD	Q9HB75	4251,57	7	X			
PIM-1	P11309	5000,6	5	X			
PIM1(C93F2)	P11309	4341,67	3	X			
PIM3	Q86V86	3372,75	4	X			
PUMAA	Q969G8	5500,2	5	X			
Rabbit mAb ACTINA(C-2)	P63267	900,6	5	X			
Rabbit pAb MCL1	Q07820	2475,83	6	X			
RAIDD	P78560	8053,33	6	X			
Rb pAb anti CSF	P09603	3034,75	4	X			
Rb pAb Anti IFN g	P01579	7958,5	3	X			

Rb pAb anti IL-2	P60568	1398,33	4	X				
Rb pAb anti IL-4	P05112	1143	3	X				
Rb pAb anti IL-6	P05231	2634,86	7	X				
Rb pAb Anti TNF a	P01375	5516,29	7	X				
S6	P62753	2865,5	4	P62753	RS6_HUMAN	9		7
SOCS-3	O14543	4761,86	7	X				
SOCS6	O14544	3656,25	4	X				
SOD21	P04179	4414	3	P04179	SODM_HUMAN	6		2
SQSTM1	Q13501	5218,33	6	Q13501	SQSTM_HUMAN	5		1
STAT3	P40763	2746,8	5	P40763	STAT3_HUMAN	17		4
TUBERIN/TSC2	P49815	4863,67	3	X				
VEGF Receptor 2	P15692	4102,83	6	X				

Tabla 58. Cruce de resultados con la base de datos de UniProt y NeXtProt para obtener el nombre canónico y con la base de datos obtenida a partir de espectrómetro de masas: subarray 8, microarray 6.

Listado de proteínas	Canonical Name	Intensidad	Spots	MS/MS	UniProt	Chromosome	Peptid-Count
ATF-4	P18848	3190,25	4	X			
ATIII sc-271987	P01008	2232,5	4	P01008	ANT3_HUMAN	1	12
BCL-2	P10415	7253,25	4	P10415	BCL2_HUMAN	18	2
CASPASA2	P42575	1892,33333	3	X			
CD 21 sc-13135	Q9HBE5	2757,5	4	X			
CyclinB1	P14635	3322,5	4	X			
ERK2	P28482	3260	4	P28482	MK01_HUMAN	22	6
FGF-13	Q92913	3607	4	X			
FLG(C-15)	Q9UDF2	3851,5	4	X			
HCAM sc-9960	P16070	6765,25	4	P16070	CD44_HUMAN	11	7
HDAC6	Q9UBN7	3649,5	4	X			
HGF-a	Q04756	5618	3	Q04756	HGFA_HUMAN	4	8
IkB-a(H-4)	P25963	3501,5	4	X			
IRF4	Q15306	4986	4	Q15306	IRF4_HUMAN	6	1
MAX	P61244	5395,33333	3	P61244	MAX_HUMAN	14	1
MCL1	Q07820	1271,75	4	X			
MDM2	Q00987	4156,5	4	X			
Mouse mAb CATHEPSIN	P43235	6146,5	4	X			
N-FATc1	O95644	3040	4	X			
NEUREGULIN-3	P56974	3458,33333	3	X			
NOXA	Q13794	5471	3	X			
OPN sc-21742	P10451	3404,5	4	P10451	OSTP_HUMAN	4	1
p-PDGFR-B	P09619	986,333333	4	X			
P-TYR	P14679	1285,66667	3	X			
p21	P38936	1256,66667	3	X			
PDGFR-B	P09619	2498,75	4	X			
PIDD	Q9HB75	2686,75	4	X			
PIM-1	P11309	3590,75	4	X			
PUMAA	Q969G8	2677,25	4	X			
Rabbit mAb ACTINA(C-2)	P63267	4722,75	4	X			
Rabbit pAb MCL1	Q07820	5790	4	X			
SOCS-3	O14543	4810,5	4	X			
SQSTM1	Q13501	3894,5	4	Q13501	SQSTM_HUMAN	5	1
STAT3	P40763	7799,25	4	P40763	STAT3_HUMAN	17	4
NFKappaBP65	Q04206	2909,33	4	Q04206	TF65_HUMAN	11	2

Tabla 59. Cruce de resultados con la base de datos de UniProt y NeXtProt para obtener el nombre canónico y con la base de datos obtenida a partir de espectrómetro de masas: subarray 9, microarray 6.

Listado de proteínas	Canonical Name	Intensidad	Spots	MS/MS	UniProt	Chromosome	Peptid-Count
Acetyl-Histona3	P01034	4203	3	X			
Acetyl-Histona4	P01036	4694	4	X			
AIF	P55008	5327	4	X			
AK1	P00568	3937,4	5	P00568	KAD1_HUMAN	9	6
AKT	P31749	3847,25	4	X			
ANTI FOS	P01100	1706	3	X			
Anti-human IL-21	P60568	2964	3	X			
Anti-human IL-6	P05231	1329	3	X			
ATIII sc-271987	P01008	11261,88	8	P01008	ANT3_HUMAN	1	12
BCL-2	P10415	3640	3	P10415	BCL2_HUMAN	18	2
CASPASA2	P42575	9647,5	16	X			
CD 21 sc-13135	Q9HBE5	3544,17	6	X			
Cleaved PARP (asp214)	P09874	11440,71	7	P09874	PARP1_HUMAN	1	23
COX IV	P13073	6319,17	6	P13073	COX41_HUMAN	16	2
Enolase1	P06733	4624	4	P06733	ENOA_HUMAN	1	21
HCAM sc-9960	P16070	6703	7	P16070	CD44_HUMAN	11	7
HEXOKINASE II	P52789	1570,33	3	X			
HGF-a	Q04756	2039,67	3	Q04756	HGFA_HUMAN	4	8
HIF1a	Q16665	4447,5	4	X			
MAX	P61244	646,67	3	P61244	MAX_HUMAN	14	1
MDM2 - 2	Q00987	2650,25	4	X			
Mouse mAb CATHEPSIN	P43235	3227,33	3	X			
NOXA	Q13794	2067,25	4	X			
OPN sc-21742	P10451	7625,5	6	P10451	OSTP_HUMAN	4	1
p-ERK-MM4	P28482	508,33	3	P28482	MK01_HUMAN	22	6
P-VEGFR2 (Y1212)	P35968	5837,25	4	X			
PIM-1	P11309	1312,5	4	X			
Rabbit mAb ACTINA(C-2)	P63267	4370	4	X			
Rabbit pAb MCL1	Q07820	5342,6	5	X			
Rabbit pAb p-BIK	Q13323	11659,71	6	X			
Rb pAb anti CSF	P09603	5070	5	X			
Rb pAb Anti IFN g	P01579	6230,5	4	X			
Rb pAb anti IL-2	P60568	8295,25	4	X			
Rb pAb anti IL-4	P05112	8148	5	X			
Rb pAb anti IL-6	P05231	3870	6	X			
Rb pAb Anti TNF a	P01375	6437,17	6	X			
SOCS6	O14544	4052	3	X			
SQSTM1	Q13501	3395,67	3	Q13501	SQSTM_HUMAN	5	1
VEGF Receptor 2	P15692	3688,33	3	X			

Tabla 60. Cruce de resultados con la base de datos de UniProt y NeXtProt para obtener el nombre canónico y con la base de datos obtenida a partir de espectrómetro de masas: subarray 1, microarray 11.

Listado de proteínas	Canonical Name	Intensidad	Spots	MS/MS	UniProt	Chromosome	Peptid-Count
VEGF Receptor 2	P15692	13088,75	4	X			
TRAP	P13686	10963	4	X			
S6	P62753	6382	4	P62753	RS6_HUMAN	9	7
Rb pAb Anti TNF a	P09603	10814	4	X			
Rb pAb anti IL-6	P01579	13599,25	4	X			
Rb pAb anti IL-4	P60568	9769,75	4	X			
Rb pAb anti IL-2	P05112	8066,25	4	X			
Rb pAb Anti IFN g	P05231	9613,25	4	X			
Rb pAb anti CSF	P01375	12397,25	4	X			
RB	P06400	7225,25	4	X			
RAIDD-MM4	P78560	2683,5	4	X			
Rabbit VDAC mAb	P21796	774,5	4	P21796	VDAC1_HUMAN	5	7
Rabbit pAb CASPASA 2	P42575	6808	4	X			
Rabbit mAb p-VEGF	P15692	6172	4	X			
Phospho-P38	Q15759	5650,75	4	X			
Phospho-IkappaB-B(ser32)	O15111	6084,25	4	X			
PDI	Q7Z2X4	901,666667	3	Q7Z2X4	BIRC2_HUMAN	11	1

PCKIT	P10721	3372,75	4	X				
p38_MM6	Q15759	5755,75	4	X				
p27Kip1	P46527	5334,5	4	P46527	CDN1B_HUMAN	12		4
P-Zap 70	P43403	7261,5	4	P43403	ZAP70_HUMAN	2		3
P-VEGFR2 (y1175)	P35968	769,666667	3	X				
P-TYR	P14679	2781	3	X				
P-SyK	P43405	6400,75	4	P43405	KSYK_HUMAN	9		28
P-Src family	P12931	4267,25	4	X				
P-S6 (ser235/236)	P62753	383	4	P62753	RS6_HUMAN	9		7
P-RB (s807/811)	P06400	4695	4	X				
P-PLCy2	P16885	9416,25	4	P16885	PLCG2_HUMAN	16		26
P-p44/42 MPAK (Erk 1/2)	Q9BQA1	8037	4	Q9BQA1	MEP50_HUMAN	1		2
P-p44/42 MPAK (Erk 1/2)	Q8IZL9	8037	4	Q9BQA1	MEP50_HUMAN	1		2
P-p38 MAPK	Q15759	4435,25	4	X				
P-MEK1	Q02750	5043,75	4	Q02750	MP2K1_HUMAN	15		2
P-MEK2	P36507	5043,75	4	P36507	MP2K2_HUMAN	19		2
p-MDM2 (s116)	Q00987	3207,5	4	X				
P-M-CSF	P07333	3404,25	4	X				
p-Lyn T	P07948	4955,75	4	P07948	LYN_HUMAN	8		9
p-ERK-MM4	P28482	2055,5	4	P28482	MK01_HUMAN	22		6
P-ERK (t202/y204)	P28482	3120,5	4	P28482	MK01_HUMAN	22		6
P-CRAF (ser 338)	P04049	3518	3	X				
P-CDC2	P06493	4036,5	4	X				
P-CD79A	P11912	5868,25	4	X				
P-CD19	P15391	7092,75	4	X				
P-C-MYC	P01106	1583,5	4	X				
P-c-Cbl	Q9ULV8	8985,75	4	X				
P-BTK	Q06187	904,666667	3	Q06187	BTK_HUMAN	X		10
P-Btk	Q06187	6823,75	4	Q06187	BTK_HUMAN	X		10
P-BLNK	Q8WV28	6625,66667	3	Q8WV28	BLNK_HUMAN	10		1
P-BAD (ser112)	Q92934	4940,66667	3	X				
P-B-Catenin (T41/s45)	P35222	2202,66667	3	X				
P-AS160	O60343	6297,75	4	X				
P-AKT (Substrate)	P31749	6752,25	4	X				
P-AKT (ser473)	P31749	8778,25	4	X				
P-4EBP1	Q13541	6378,66667	3	Q13541	4EBP1_HUMAN	8		1
Nucleolin	P19338	3119	4	P19338	NUCL_HUMAN	2		40
NFKB1 p105/p50	P19838	1712	3	P19838	NFKB1_HUMAN	4		8
NFKappaBP65	Q04206	5736,25	4	Q04206	TF65_HUMAN	11		2
Mouse a CD31	P16284	1230	4	X				
MEK1	Q02750	1702,5	4	Q02750	MP2K1_HUMAN	15		2
MEK2	P36507	1702,5	4	P36507	MP2K2_HUMAN	19		2
MDM2 - 2	Q00987	13055,25	4	X				
MCL1	Q07820	2809,75	4	X				
junB	P17275	5710,75	4	X				
IkB-a(H-4)	P25963	3530	4	X				
IGF-IrB	P08069	2176,25	4	X				
HSP90	P07900	1713	3	P07900	HS90A_HUMAN	14		18
HSF-1	Q00613	6484	4	X				
HIF1a	Q16665	9967,25	4	X				
GAPDH	P04406	2928,5	4	P04406	G3P_HUMAN	12		31
FOSB	P53539	5980,75	4	X				
FLG(C-15)	Q9UDF2	1966,25	4	X				
FGF-13	Q92913	3548,25	4	X				
ERK2	P28482	7162	4	P28482	MK01_HUMAN	22		6
EG5	P52732	5174	4	X				
E2F1	Q01094	9517,25	4	X				
CyclinD3	P30281	3637,5	4	X				
CyclinD2	P30279	2355,66667	3	X				
CyclinD1	P24385	3075,5	4	X				
CyclinB1	P14635	2897	4	X				
CXCR4	P61073	7594,75	4	P61073	CXCR4_HUMAN	2		1
CRBN	Q96SW2	5805	4	X				
CDC2 (POH1)	P06493	3234,5	4	X				
CASPASA9	P55211	1340,33333	3	X				
CASPASA7	P42575	5451,5	4	X				
CASPASA3	P42574	3323,5	4	P42574	CASP3_HUMAN	4		1
CASPASA2	P55210	11575,75	4	X				

CALNEXIN	P27824	1799	4	P27824	CALX_HUMAN	5	16
C-MYC	P01106	1038	3	X			
c-jun	P05412	3998,25	4	X			
C-IAP1	Q13490	4151,5	4	Q13490	BIRC2_HUMAN	11	1
C-EBPalpha	Q15125	7117	4	X			
BIP	P11021	7914,5	4	P11021	GRP78_HUMAN	9	17
BIM	O43521	5740,75	4	X			
BID	P55957	5658,5	4	X			
BCL-XL	O15519	6321	4	X			
BAX	Q07812	5085,75	4	Q07812	BAX_HUMAN	19	6
BAK (D4E4)	Q16611	4013,25	4	X			
BAD	Q92934	7106,25	4	X			
ATF-6	P18848	2211,5	4	X			
ATF-4	P18850	1808,5	4	X			
Anti-human IL-8	P05113	5910,5	4	X			
Anti-human IL-6	P05231	6831	4	X			
Anti-human IL-5	P10145	9872,5	4	X			
Anti-GM-CSF	P04141	9225,5	4	X			
ANTI JUN-MM8	P05412	7235,75	4	X			
ANTI FOS	P01100	8344,5	4	X			
ANTI CHEMOKINE CXC	P25025	9366,25	4	X			
Acetyl-P53	P04637	3302,75	4	X			
ABL1	P00519	1380	3	X			
a-Tubulina	Q71U36	4345,75	4	X			

Tabla 61. Cruce de resultados con la base de datos de UniProt y NeXtProt para obtener el nombre canónico y con la base de datos obtenida a partir de espectrómetro de masas: subarray 2, microarray 11.

Listado de proteínas	Canonical Name	Intensidad	Spots	MS/MS	UniProt	Chromosome	Peptid-Count
aBCR1	P78363	6554	3	X			
ABL1	P00519	7398	4	X			
Anti-human HLA-DR1	Q29744	4518	3	X			
CASPASA2	P42575	7593,5	4	X			
Mouse mAb p161	P42771	2671,33333	3	X			
p-ERK	P28482	2161,66667	3	P28482	MK01_HUMAN	22	6
p-PDGFR-B	P09619	1030	4	X			
P-STAT3	P40763	3178	3	P40763	STAT3_HUMAN	17	4
P-VEGFR2 (Y1212)	P35968	3589,33333	3	X			
p16 INK41	P42771	1619	3	X			
PDGFR-B	P09619	1642	4	X			
PhosphoHistona3(ser10)	O15379	811,666667	3	X			
PIDD	Q9HB75	860,5	4	X			
PUMAA	Q969G8	1720,33333	3	X			
Rabbit pAb p-BIK	Q13323	3719,5	4	X			
Rb pAb Anti IFN g	P01579	5589,66667	3	X			
Rb pAb anti IL-81	P10145	2480	4	X			
Rb pAb Anti TNF a	P01375	7143	4	X			
SOD21	P04179	3741,25	4	P04179	SODM_HUMAN	6	2

Tabla 62. Cruce de resultados con la base de datos de UniProt para obtener el nombre canónico y con la base de datos obtenida a partir de espectrómetro de masas: subarray 3, microarray 11.

Listado de proteínas	Canonical Name	Intensidad	Spots	MS/MS	UniProt	Chromosome	Peptid-Count
Acetyl-P53	P04637	4073	3	X			
AK1	P00568	2566	3	P00568	KAD1_HUMAN	9	6
ANTI CHEMOKINE CXC	P25025	3313,75	4	X			
ANTI FOS	P01100	4476	4	X			
Anti-GM-CSF	P04141	5185,25	4	X			
Anti-human IL-21	P60568	3798	3	X			
Anti-human IL-5	P05113	5387,5	4	X			

Anti-human IL-6	P05231	4821,25	4	X				
Anti-human IL-8	P10145	5701	4	X				
ATF-4	P18848	14971,75	4	X				
ATF-6	P18850	22464,75	4	X				
ATIII sc-271987	P01008	26627	4	P01008	ANT3_HUMAN	1		12
BAD	Q92934	1663,25	4	X				
BAK (D4E4)	Q16611	3428,75	4	X				
BAX	Q07812	6539,33333	3	Q07812	BAX_HUMAN	19		6
BCL-2	P10415	17528,75	4	P10415	BCL2_HUMAN	18		2
BCL-XL	O15519	3032,5	4	X				
BID	P55957	4626,5	4	X				
BIM	O43521	5606,25	4	X				
BIP	P11021	8302,75	4	P11021	GRP78_HUMAN	9		17
C-EBPalpha (D56F10/XPC)	Q15125	5551,5	4	X				
C-IAP1	Q13490	1679	3	Q13490	BIRC2_HUMAN	11		1
c-jun	P05412	2248,33333	3	X				
C-MYC	P01106	1590,5	4	X				
CALNEXIN	P27824	1722,25	4	P27824	CALX_HUMAN	5		16
CASPASA2	P42575	15628	4	X				
CASPASA3	P42574	1904,66667	3	P42574	CASP3_HUMAN	4		1
CASPASA7	P55210	3637,75	4	X				
CASPASA9	P55211	2143,25	4	X				
CD 21 sc-13135	Q9HBE5	24782,5	4	X				
CDC2 (POH1)	P06493	5374,25	4	X				
Cleaved PARP (asp214)	P09874	13051	4	P09874	PARP1_HUMAN	1		23
COX IV	P13073	7595,75	4	P13073	COX4I_HUMAN	16		2
CyclinB1	P14635	20343	4	X				
E2F1	Q01094	3898	4	X				
EG5	P52732	7483	4	X				
Enolase1	P06733	2336,75	4	P06733	ENOA_HUMAN	1		21
ERK2	P28482	20509,75	4	P28482	MK01_HUMAN	22		6
FGF-13	Q92913	21017,75	4	X				
FLG(C-15)	Q9UDF2	19434,75	4	X				
FOSB	P53539	1471	3	X				
HCAM sc-9960	P16070	21900,5	4	P16070	CD44_HUMAN	11		7
HDAC6	Q9UBN7	17868	4	X				
HGF-a	Q04756	17814,5	4	Q04756	HGFA_HUMAN	4		8
HIF1a	Q16665	3501	4	X				
HSF-1	Q00613	7381	4	X				
IGF-IrB	P08069	17956,25	4	X				
IkB-a(H-4)	P25963	20334,25	4	X				
IRF4	Q15306	18629	4	Q15306	IRF4_HUMAN	6		1
junB	P17275	4947,5	4	X				
MAX	P61244	18714,5	4	P61244	MAX_HUMAN	14		1
MCL1	Q07820	12461	4	X				
MDM2 - 2	Q00987	5398,25	4	X				
MDM2	Q00987	19849	4	X				
Mouse mAb CATHEPSIN	P43235	22484,5	4	X				
N-FATc1	O95644	17348,25	4	X				
NEUREGULIN-3	P56974	17864,75	4	X				
NFKappaBP65	Q04206	19451	4	Q04206	TF65_HUMAN	11		2
NOXA	Q13794	18678,25	4	X				
OPN sc-21742	P10451	27690,5	4	P10451	OSTP_HUMAN	4		1
P-4EBP1	Q13541	6306,25	4	Q13541	4EBP1_HUMAN	8		1
P-AKT (ser473)	P31749	4408,66667	3	X				
P-AKT (Substrate)	P31749	504,333333	3	X				
P-AS160	O60343	6981,5	4	X				
P-BLNK	Q8WV28	7360	4	Q8WV28	BLNK_HUMAN	10		1
P-Btk	Q06187	7030,75	4	Q06187	BTK_HUMAN	X		10
P-c-Cbl	Q9ULV8	9981,75	4	X				
P-CD19	P15391	7811,5	4	X				
P-CD79A	P11912	6634	4	X				
P-CDC2	P06493	2165	3	X				
p-ERK-MM4	P28482	1180,33333	3	P28482	MK01_HUMAN	22		6
P-GAB1 (tyr 627)	Q13480	12719,6	4	X				
p-Lyn T	P07948	8181,75	4	P07948	LYN_HUMAN	8		9

P-M-CSF	P07333	1678	3	X				
P-p38 MAPK	Q15759	11052	4	X				
P-p44/42 MPAK (Erk 1/2)	Q9BQA1	6074	4	X	Q9BQA1	MEP50_HUMAN	1	2
	Q8IZL9	6074	4	X				
p-PDGFR-B	P09619	19648,25	4	X				
P-PLCy2	P16885	9579,5	4	X	P16885	PLCG2_HUMAN	16	26
P-RB (s807/811)	P06400	1616,25	4	X				
P-Src family	P12931	5466	4	X				
P-STAT3	P40763	20097,25	4	X	P40763	STAT3_HUMAN	17	4
P-SyK	P43405	4801,75	4	X	P43405	KSYK_HUMAN	9	28
P-TYR	P14679	21293,5	4	X				
P-VEGFR2 (Y1212)	P35968	5956,75	4	X				
P-Zap 70	P43403	11535	4	X	P43403	ZAP70_HUMAN	2	3
p21	P38936	20090,75	4	X				
p27Kip1	P46527	5206,5	4	X	P46527	CDN1B_HUMAN	12	4
p38_MM6	Q15759	6630,75	4	X				
PDGFR-B	P09619	19306,75	4	X				
Phospho-IkappaB-B(ser32)	O15111	3209,25	4	X				
Phospho-P38	Q15759	4348,5	4	X				
PhosphoHistona3(ser10)	O15379	20992	4	X				
PIDD	Q9HB75	13914,25	4	X				
PIM-1	P11309	18590,5	4	X				
PUMAA	Q969G8	18119,5	4	X				
Rabbit mAb ACTINA(C-2)	P63267	29425	4	X				
Rabbit pAb MCL1	Q07820	24095,25	4	X				
Rabbit pAb p-BIK	Q13323	15369,25	4	X				
Rb pAb anti CSF	P09603	9377	4	X				
Rb pAb Anti IFN g	P01579	11327,25	4	X				
Rb pAb anti IL-2	P60568	4317,5	4	X				
Rb pAb anti IL-4	P05112	5849,5	4	X				
Rb pAb anti IL-6	P05231	11511	4	X				
Rb pAb Anti TNF a	P01375	9846,5	4	X				
SOCS-3	O14543	18822,75	4	X				
SOCS6	O14544	14483,75	4	X				
SQSTM1	Q13501	18328	4	X	Q13501	SQSTM_HUMAN	5	1
STAT3	P40763	17423	4	X	P40763	STAT3_HUMAN	17	4
VEGF Receptor 2	P15692	5476	4	X				

Tabla 62. Cruce de resultados con la base de datos de UniProt y NeXtProt para obtener el nombre canónico y con la base de datos obtenida a partir de espectrómetro de masas: subarray 4, microarray 11.

Listado de proteínas	Canonical Name	Intensidad	Spots	MS/MS	UniProt	Chromosome	Peptid-Count	
a-Tubulina	Q71U36	5192	4	X				
Acetyl-P53	P04637	6526,25	4	X				
ANTI CHEMOKINE	P25025	11366	4	X				
ANTI FOS	P01100	10967,25	4	X				
ANTI JUN	P05412	3013,75	4	X				
Anti-GM-CSF	P04141	8338,5	4	X				
Anti-human IL-5	P05113	12077,75	4	X				
Anti-human IL-6	P05231	10052	4	X				
Anti-human IL-8	P10145	10047	4	X				
ATF-4	P18848	6880	3	X				
ATF-6	P18850	9147	3	X				
BAD	Q92934	12676,25	4	X				
BAK (D4E4)	Q16611	6703	4	X				
BAX	Q07812	12527,5	4	X	Q07812	BAX_HUMAN	19	6
BCL-2	P10415	5288,33333	3	X	P10415	BCL2_HUMAN	18	2
BCL-XL	O15519	15667	4	X				
BID	P55957	15167,3333	3	X				
BIP	P11021	16136,5	4	X	P11021	GRP78_HUMAN	9	17
BLC1	O43927	6902,25	4	X				
BRCA-1	P38398	2468,66667	3	X				
C-EBPalpha	Q15125	17581,6667	3	X				

C-IAP1	Q13490	14084	4	Q13490	BIRC2_HUMAN	11	1
c-jun	P05412	11371,25	4	X			
C-MYC	P01106	13686	4	X			
CALNEXIN	P27824	12116,25	4	P27824	CALX_HUMAN	5	16
CASPASA2	P42575	12215,5	4	X			
CASPASA3	P42574	5183,75	4	P42574	CASP3_HUMAN	4	1
CASPASA7	P55210	3202,75	4	X			
CASPASA8	Q14790	7553	4	X			
CASPASA9	P55211	14724,5	4	X			
CDC2 (POH1)	P06493	17028,5	4	X			
CRBN	Q96SW2	4555,75	4	X			
CXCR4-MM8	P61073	5329,5	4	P61073	CXCR4_HUMAN	2	1
CyclinB1	P30281	9517,25	4	X			
CyclinD1	P30279	13817	4	X			
CyclinD2	P24385	10589	4	X			
CyclinD3	P14635	11541,25	4	X			
E2F1	Q01094	16544,25	4	X			
EG5	P52732	18129,25	4	X			
ERK2	P28482	10530	4	P28482	MK01_HUMAN	22	6
FGF-13	Q92913	10468,5	4	X			
FLG(C-15)	Q9UDF2	9598,5	4	X			
FOSB	P53539	12996,75	4	X			
GAPDH	P04406	12019	4	P04406	G3P_HUMAN	12	31
HGF-a	Q04756	1562,66667	3	Q04756	HGFA_HUMAN	4	8
HIF1a	Q16665	7498,5	4	X			
HLA-DR1	Q29744	3966	3	X			
HSF-1	Q00613	18335	4	X			
HSP40	P25685	8322,66667	3	P25685	DNJB1_HUMAN	19	3
HSP60	P10809	11268	4	P10809	CH60_HUMAN	2	25
HSP70	P34932	10930	4	P34932	HSP74_HUMAN	5	24
HSP90	P07900	10137,25	4	P07900	HS90A_HUMAN	14	18
IGF-IrB	P08069	8894,5	4	X			
IkB-a(H-4)	P25963	10613,25	4	X			
IRF4	Q15306	3582,66667	3	Q15306	IRF4_HUMAN	6	1
junB	P17275	18342,5	4	X			
MAX	P61244	2586	3	P61244	MAX_HUMAN	14	1
MCL1	Q07820	10514,75	4	X			
MDM2 - 2	Q00987	15917,5	4	X			
MDM2	Q00987	8187	4	X			
MEK1/2	Q02750	12223,5	4	Q02750	MP2K1_HUMAN	15	2
	P36507	12223,5	4	P36507	MP2K2_HUMAN	19	2
Mouse Citocromo C1	P99999	5820,25	4	P99999	CYC_HUMAN	7	8
NFKappaBP65	Q04206	9174,75	4	Q04206	TF65_HUMAN	11	2
NFKB1 p105/p50	P19838	10899	4	P19838	NFKB1_HUMAN	4	8
NFKB2 p100/p52	Q00653	10761,75	4	Q00653	NFKB2_HUMAN	10	6
Nucleolin	P19338	13799,5	4	P19338	NUCL_HUMAN	2	40
P-4EBP1	Q13541	17753	4	Q13541	4EBP1_HUMAN	8	1
P-AKT (ser473)	P31749	15298	4	X			
P-AKT (Substrate)	P31749	11883,5	4	X			
p-AKT (T308)	P31749	10256,25	4	X			
P-AS160	O60343	21120,25	4	X			
P-ATR (ser428)	Q13535	1963,33333	3	X			
P-B-Catenin (T41/s45)	P35222	11104,5	4	X			
P-BAD (ser112)	Q92934	8531	4	X			
P-BLNK	Q8WV28	21738,75	4	Q8WV28	BLNK_HUMAN	10	1
P-BRCA1 (ser1524)	P38398	1212,66667	3	X			
P-Btk	Q06187	17738	4	Q06187	BTK_HUMAN	X	10
P-BTK	Q06187	9851	4	Q06187	BTK_HUMAN	X	10
P-c-Cbl	Q9ULV8	16776,25	4	X			
P-C-MYC	P01106	12679,75	4	X			
P-CD19	P15391	9691,5	4	X			
P-CD79A	P11912	20316	4	X			
P-CDC2	P06493	13036,25	4	X			
P-CHK1 (ser345)	O14757	4370,33333	3	X			
P-CRAF (ser 338)	P04049	10510	4	X			
P-ERK (t202/y204)	P28482	8472	4	P28482	MK01_HUMAN	22	6

p-Lyn T	P07948	6870,25	4	P07948	LYN_HUMAN	8	9
P-M-CSF	P07333	8190,75	4	X			
p-MDM2 (s116)	Q00987	10174,75	4	X			
P-MEK1/2	Q02750	9577,75	4	Q02750	MP2K1_HUMAN	15	2
	P36507	9577,75	4	P36507	MP2K2_HUMAN	19	2
P-p38 MAPK	Q15759	7152	4	X			
P-p44/42 MPAK (Erk 1/2)	Q9BQA1	16492,5	4	Q9BQA1	MEP50_HUMAN	1	2
	Q8IZL9	16492,5	4	X			
P-PLCy2	P16885	15509,25	4	P16885	PLCG2_HUMAN	16	26
P-RB (s807/811)	P06400	15308,5	4	X			
P-S6 (ser235/236)	P62753	10338,5	4	P62753	RS6_HUMAN	9	7
P-Src family	P12931	17929,75	4	X			
P-SyK	P43405	13884,5	4	P43405	KSYK_HUMAN	9	28
P-VEGFR2 (y1175)	P35968	9897,66667	3	X			
P-Zap 70	P43403	23918,25	4	P43403	ZAP70_HUMAN	2	3
p27Kip1	P46527	19352	4	P46527	CDN1B_HUMAN	12	4
p38	Q15759	17599	4	X			
PARP	P09874	4316,66667	3	P09874	PARP1_HUMAN	1	23
PCKIT	P10721	10438,25	4	X			
PDI	Q7Z2X4	10980,5	4	Q7Z2X4	BIRC2_HUMAN	11	1
Phospho-IkappaB-B(ser32)	O15111	8156,5	4	X			
Phospho-P38	Q15759	11001,75	4	X			
PU1	P17947	12973	3	X			
Rabbit a Ki671	P46013	3085,25	4	X			
Rabbit mAb p-VEGF	P15692	15148,75	4	X			
Rabbit pAb CASPASA 2-N	P42575	1107,66667	3	X			
Rabbit VDAC mAb	P21796	13058,5	4	P21796	VDAC1_HUMAN	5	7
RAIDD-MM4	P78560	3635,33333	3	X			
RB	P06400	13322,5	4	X			
Rb pAb anti CSF	P01375	2634,25	4	X			
Rb pAb Anti IFN g	P05231	9097,25	4	X			
Rb pAb anti IL-2	P05112	1047,66667	3	X			
Rb pAb Anti TNF a	P09603	11126,3333	3	X			
S6	P62753	8894,25	4	P62753	RS6_HUMAN	9	7
SOCS6	O14544	2307,66667	3	X			
STAT3	P40763	4521,75	4	P40763	STAT3_HUMAN	17	4
Survivin	O15392	1975,25	4	X			
TGF-BETA	P36897	13225,6667	3	X			
TRAP	P13686	3874	4	X			
TUBERIN/TSC2	P49815	8633	4	X			
VEGF Receptor 2	P15692	6435	4	X			

Tabla 62. Cruce de resultados con la base de datos de UniProt y NeXtProt para obtener el nombre canónico y con la base de datos obtenida a partir de espectrómetro de masas: MIX, microarray 11.

Listado de proteínas	Canonical Name	Intensidad	Spots	MS/MS	UniProt	Chromosome	Peptid-Count
4EBP1	Q13541	1997,5	8	Q13541	4EBP1_HUMAN	8	1
a-Tubulina	Q71U36	5357,75	4	X			
ABL1	P00519	1689,25	3	X			
Acetyl-Histona3	P01034	1621,75	4	X			
Acetyl-Histona4	P01036	1606,33333	3	X			
Acetyl-P53	P04637	14092,25	4	X			
AIOLOS(D1C1E)	Q9UKT9	4184	4	Q9UKT9	IKZF3_HUMAN	17	2
AKT	P31749	2490,33333	3	X			
AMPKa	Q13131	3464,25	4	Q13131	AAPK1_HUMAN	5	1
ANTI CHEMOKINE CXC	P25025	5455,5	4	X			
ANTI FOS	P01100	12468,25	4	X			
ANTI JUN	P05412	4397,25	4	X			
Anti-GM-CSF	P04141	14660,5	4	X			
Anti-human IL-5	P05113	8741,75	4	X			
Anti-human IL-6	P05231	9848,25	4	X			
Anti-human IL-8	P10145	7081,75	4	X			
BAD	Q92934	11614,25	4	X			

BAK (D4E4)	Q16611	8811,75	4	X				
BAX	Q07812	13311,25	4	Q07812	BAX_HUMAN	19		6
BCL-XL	O15519	11921,75	4	X				
BID	P55957	12443,25	4	X				
BIM	O43521	13762	4	X				
BIP	P11021	11760,25	4	P11021	GRP78_HUMAN	9		17
BRCA-1	P38398	3117	3	X				
C-EBPalpha (D56F10/XPC)	Q15125	14404,75	4	X				
C-IAP1	Q13490	12763	4	Q13490	BIRC2_HUMAN	11		1
c-jun	P05412	15287,75	4	X				
C-MYC	P01106	7789,25	4	X				
CALNEXIN	P27824	9641,75	4	P27824	CALX_HUMAN	5		16
CASPASA2	P42575	17800,5	4	X				
CASPASA3	P42574	8677,25	4	P42574	CASP3_HUMAN	4		1
CASPASA7	P55210	10612,25	4	X				
CASPASA9	P55211	8804,25	4	X				
CDC2 (POH1)	P06493	13195,5	4	X				
COX IV	P13073	11780,75	4	P13073	COX41_HUMAN	16		2
CRBN	Q96SW2	5057,25	4	X				
CXCR4	P61073	4067	4	P61073	CXCR4_HUMAN	2		1
CyclinD1	P30279	8165,5	4	X				
CyclinD2	P24385	10548,75	4	X				
CyclinD3	P14635	9716	4	X				
E2F1	Q01094	13464,75	4	X				
EG5	P52732	12720,75	4	X				
FOSB	P53539	14773	4	X				
GAPDH	P04406	10712,75	4	P04406	G3P_HUMAN	12		31
HEXOKINASE II	P52789	3176,66667	3	X				
HIF1a	Q16665	13337,75	4	X				
HLA-DR1	Q29744	2171,5	4	X				
HSF-1	Q00613	13189	4	X				
HSP40	P25685	4016	4	P25685	DNJB1_HUMAN	19		3
HSP60	P10809	5682	4	P10809	CH60_HUMAN	2		25
HSP70	P34932	4761,25	4	P34932	HSP74_HUMAN	5		24
HSP90	P07900	5031,75	4	P07900	HS90A_HUMAN	14		18
IKAROS	Q13422	2931,5	4	Q13422	IKZF1_HUMAN	7		3
junB	P17275	17055,75	4	X				
MAD-1	Q9Y6D9	2682,75	4	X				
MCL1	Q07820	5247,5	4	X				
MDM2 - 2	Q00987	16980,5	4	X				
MEK1/2	Q02750	2849	4	Q02750	MP2K1_HUMAN	15		2
	P36507	2849	4	P36507	MP2K2_HUMAN	19		2
NFKB1 p105/p50	P19838	3636,25	4	P19838	NFKB1_HUMAN	4		8
NFKB2 p100/p52	Q00653	2551	4	Q00653	NFKB2_HUMAN	10		6
Nucleolin	P19338	3337,25	4	P19338	NUCL_HUMAN	2		40
P-4EBP1	Q13541	10779	4	Q13541	4EBP1_HUMAN	8		1
P-AKT (ser473)	P31749	9796	4	X				
P-AKT (Substrate)	P31749	10014,5	4	X				
p-AKT (T308)	P31749	2664,25	4	X				
P-AMPKa (T172)	Q13131	2278,5	4	Q13131	AAPK1_HUMAN	5		1
P-AS160	O60343	22790	4	X				
P-B-Catenin (T41/s45)	P35222	8405	4	X				
P-BLNK	Q8WV28	20250,75	4	Q8WV28	BLNK_HUMAN	10		1
P-Btk	Q06187	22766	4	Q06187	BTK_HUMAN	X		10
P-BTK	Q06187	10940,25	4	Q06187	BTK_HUMAN	X		10
P-c-Cbl	Q9ULV8	22453,5	4	X				
P-C-MYC	P01106	7909	4	X				
P-CD19	P15391	25670	4	X				
P-CD79A	P11912	20815,25	4	X				
P-CDC2	P06493	11616	4	X				
P-CHK1 (ser345)	O14757	583,5	4	X				
P-CHK2 (t68)	O96017	794,666667	3	X				
P-CRAF (ser 338)	P04049	5847	4	X				
P-ERK (t202/y204)	P28482	6136	4	P28482	MK01_HUMAN	22		6
p-ERK-MM4	P28482	6016,75	4	P28482	MK01_HUMAN	22		6
P-GSK3B	P49841	2877,5	4	X				
p-Lyn T	P07948	23839	4	P07948	LYN_HUMAN	8		9
P-M-CSF	P07333	13324,75	4	X				

p-MDM2 (s116)	Q00987	2829,25	4	X				
P-MEK1/2	Q02750	4307,33333	3	Q02750	MP2K1_HUMAN	15		2
	P36507	4307,33333	3	P36507	MP2K2_HUMAN	19		2
P-p38 MAPK	Q15759	24787,75	4	X				
P-p44/42 MPAK (Erk 1/2)	Q9BQA1	22152,25	4	Q9BQA1	MEP50_HUMAN	1		2
	Q8IZL9	22152,25	4	X				
P-PLCy2	P16885	25582,25	4	P16885	PLCG2_HUMAN	16		26
P-PRAS40 (t246)	Q96B36	3311	3	X				
P-RB (s807/811)	P06400	12678,25	4	X				
P-S6 (ser235/236)	P62753	5981	4	P62753	RS6_HUMAN	9		7
P-Src family	P12931	17591,25	4	X				
P-SyK	P43405	24165,5	4	P43405	KSYK_HUMAN	9		28
P-VEGFR2 (y1175)	P35968	13698	4	X				
P-VEGFR2 (Y1212)	P35968	9354	3	X				
P-Zap 70	P43403	25599,75	4	P43403	ZAP70_HUMAN	2		3
p21Waf/Cip1	P38936	1712,66667	3	X				
p27Kip1	P46527	18565	4	P46527	CDN1B_HUMAN	12		4
p38_MM6	Q15759	17334	4	X				
P53	P04637	3786	4	X				
PCKIT	P10721	10604,25	4	X				
PDI	Q7Z2X4	5156	4	Q7Z2X4	BIRC2_HUMAN	11		1
Phospho-H2AX (ser139)	P16104	2282,75	4	X				
Phospho-IkappaB-B(ser32)	O15111	17418,25	4	X				
Phospho-P38	Q15759	13680,75	4	X				
PIM1(C93F2)	P11309	1945,33333	3	X				
PIM2	Q9P1W9	1790	4	X				
PIM3	Q86V86	1121	4	X				
PRAS40_MM6	Q96B36	2579,33333	3	X				
PU1	P17947	9003,75	4	X				
Rabbit mAb p-VEGF	P15692	11161,75	4	X				
Rabbit pAb p-BIK	Q13323	20884	4	X				
Rabbit VDAC mAb	P21796	4269,5	4	P21796	VDAC1_HUMAN	5		7
RAIDD-MM4	P78560	5416	4	X				
RAS (D2C1)	P01116	9434,33333	3	X				
RB	P06400	10067,5	4	X				
Rb pAb anti CSF	P09603	15031,75	4	X				
Rb pAb Anti IFN g	P01579	17090,25	4	X				
Rb pAb anti IL-2	P60568	14869,5	4	X				
Rb pAb anti IL-4	P05112	14541,25	4	X				
Rb pAb anti IL-6	P05231	17499,25	4	X				
Rb pAb Anti TNF a	P01375	17106,75	4	X				
S6	P62753	6106	4	P62753	RS6_HUMAN	9		7
SOD21	P04179	5346,5	4	P04179	SODM_HUMAN	6		2
TGF-BETA	P36897	6722	4	X				
TRAP	P13686	7044,25	4	X				
TUBERIN/TSC2	P49815	4514,25	4	X				
VEGF Receptor 2	P15692	16732,6667	3	X				

Tabla 63. Cruce de resultados con la base de datos de UniProt y NeXtProt para obtener el nombre canónico y con la base de datos obtenida a partir de espectrómetro de masas: subarray 2, microarray 22.

Listado de proteínas	Canonical Name	Intensidad	Spots	MS/MS	UniProt	Chromosome	Peptid-Count
ATF-4	P18848	11896,75	4	X			
ATF-6	P18850	10305,75	4	X			
ATIII sc-271987	P01008	14017	4	P01008	ANT3_HUMAN	1	12
BCL-2	P10415	12845	4	P10415	BCL2_HUMAN	18	2
CASPASA2	P42575	12032,25	4	X			
CD 21 sc-13135	Q9HBE5	11427,75	4	X			
CyclinB1	P14635	9853	4	X			
ERK2	P28482	12885	4	P28482	MK01_HUMAN	22	6
FGF-13	Q92913	11642,25	4	X			
FLG(C-15)	Q9UDF2	10670,25	4	X			
HCAM sc-9960	P16070	10111	4	P16070	CD44_HUMAN	11	7
HDAC6	Q9UBN7	10250,5	4	X			

HGF-a	Q04756	12576,25	4	Q04756	HGFA_HUMAN	4	8
IGF-IrB	P08069	12948	4	X			
IkB-a(H-4)	P25963	11620	4	X			
IRF4	Q15306	11371,25	4	Q15306	IRF4_HUMAN	6	1
MAD-1	Q946D9	3068,33333	3	X			
MAX	P61244	10129	4	P61244	MAX_HUMAN	14	1
MCL1	Q07820	8043,75	4	X			
MDM2	Q00987	11700,25	4	X			
Mouse mAb CATHEPSIN	P43235	17150	4	X			
N-FATc1	O95644	10011	4	X			
NEUREGULIN-3	P56974	10693,3333	3	X			
NFKappaBP65	Q04206	12473	4	Q04206	TF65_HUMAN	11	2
NOXA	Q13794	8541,25	4	X			
OPN sc-21742	P10451	9934,75	4	P10451	OSTP_HUMAN	4	1
P-GAB1 (tyr 627)	Q13480	12251,75	4	X			
p-PDGFR-B	P09619	10420,5	4	X			
P-STAT3	P40763	12552	4	P40763	STAT3_HUMAN	17	4
P-TYR	P14679	12261,75	4	X			
p21	P38936	13252,75	4	X			
PDGFR-B	P09619	15135,75	4	X			
PhosphoHistona3(ser10)	O15379	11066,5	4	X			
PIDD	Q9HB75	11802,5	4	X			
PIM-1	P11309	10935	4	X			
PUMAAa	Q969G8	9869,25	4	X			
Rabbit mAb ACTINA(C-2)	P63267	15191,25	4	X			
Rabbit pAb MCL1	Q07820	14874,5	4	X			
SOCS-3	O14543	11052,25	4	X			
SOCS6	O14544	12009	4	X			
SQSTM1	Q13501	11165,75	4	Q13501	SQSTM_HUMAN	5	1
STAT3	P40763	10871,25	4	P40763	STAT3_HUMAN	17	4

Tabla 63. Cruce de resultados con la base de datos de UniProt y NeXtProt para obtener el nombre canónico y con la base de datos obtenida a partir de espectrómetro de masas: subarray 3, microarray 22.

Listado de proteínas	Canonical Name	Intensidad	Spots	MS/MS	UniProt	Chromosome	Peptid-Count
4EBP1	Q13541	2165,5	4	Q13541	4EBP1_HUMAN	8	1
a-Tubulina	Q71U36	976,333333	3	X			
ABL1	P00519	1270,66667	3	X			
Acetyl-Histona3	P01034	1694,33333	3	X			
Acetyl-Histona4	P01036	7868,12179	4	X			
Acetyl-P53	P04637	3385,5	4	X			
AIF	P55008	3214,75	4	X			
AKT	P31749	2636,75	4	X			
ANTI CHEMOKINE CXC	P25025	3952,66667	3	X			
ANTI FOS	P01100	6791,33333	3	X			
Anti-GM-CSF	P04141	6135,75	4	X			
Anti-human IL-21	P60568	8001,5	4	X			
Anti-human IL-5	P05113	7005,25	4	X			
Anti-human IL-6	P05231	7868,33333	3	X			
Anti-human IL-8	P10145	7474,75	4	X			
ATF-4	P18848	14114	4	X			
ATF-6	P18850	9206,09283	4	X			
ATIII sc-271987	P01008	29550,5	4	P01008	ANT3_HUMAN	1	12
BAD	Q92934	2808,33333	3	X			
BAK (D4E4)	Q16611	3415,5	4	X			
BCL-2	P10415	18100,25	4	P10415	BCL2_HUMAN	18	2
BCL-XL	O15519	4861	4	X			
BIM	O43521	3303	4	X			
BIP	P11021	8388,5	4	P11021	GRP78_HUMAN	9	17
C-EBPalpha (D56F10/XPC)	Q15125	3114	4	X			
c-jun	P05412	2298	4	X			
C-MYC	P01106	4593,5	4	X			
CALNEXIN	P27824	4790,25	4	P27824	CALX_HUMAN	5	16

CASPASA3	P42574	4697	4	P42574	CASP3_HUMAN	4	1
CASPASA7	P55210	8547,5	4	X			
CASPASA9	P55211	5010,5	4	X			
CD 21 sc-13135	Q9HBE5	20387,5	4	X			
CDC2 (POH1)	P06493	6762,66667	3	X			
CDC25A	P30304	5232,25	4	X			
Cleaved PARP (asp214)	P09874	14813,75	4	P09874	PARP1_HUMAN	1	23
COX IV	P13073	8136,75	4	P13073	COX4I_HUMAN	16	2
CyclinB1	P14635	19100,5	4	X			
CyclinD2	P30279	1864	4	X			
E2F1	Q01094	3075,25	4	X			
EG5	P52732	7007,25	4	X			
Enolase1	P06733	8146,75	4	P06733	ENOA_HUMAN	1	21
ERK2	P28482	18080,5	4	P28482	MK01_HUMAN	22	6
FGF-13	Q92913	19382,25	4	X			
FLG(C-15)	Q9UDF2	16840,75	4	X			
FOSB	P53539	2469,33333	3	X			
GAPDH	P04406	4604,25	4	P04406	G3P_HUMAN	12	31
HCAM sc-9960	P16070	20169,5	4	P16070	CD44_HUMAN	11	7
HDAC6	Q9UBN7	11058,75	4	X			
HEXOKINASE II	P52789	4363,33333	3	X			
HGF-a	Q04756	16826	4	Q04756	HGFA_HUMAN	4	8
HIF1a	Q16665	7388,25	4	X			
HLA-DR1	Q29744	1567,33333	3	X			
HSF-1	Q00613	6411,5	4	X			
HSP40	P25685	3382	3	P25685	DNJB1_HUMAN	19	3
IGF-IrB	P08069	16381	4	X			
IkB-a(H-4)	P25963	18815,75	4	X			
IRF4	Q15306	18108,25	4	Q15306	IRF4_HUMAN	6	1
junB	P17275	4503,25	4	X			
MAX	P61244	10872,25	4	P61244	MAX_HUMAN	14	1
MCL1	Q07820	5606,25	4	X			
MCL1	Q07820	1077,33333	3	X			
MDM2 - 2	Q00987	8250	4	X			
MDM2	Q00987	18356	4	X			
Mouse Citocromo C1	P99999	6245,33333	3	P99999	CYC_HUMAN	7	8
Mouse mAb CATHEPSIN	P43235	12339	3	X			
N-FATc1	O95644	18893,5	4	X			
NEUREGULIN-3	P56974	16079	4	X			
NFKappaBP65	Q04206	19145,25	4	Q04206	TF65_HUMAN	11	2
NOXA	Q13794	17897	4	X			
OPN sc-21742	P10451	24370,25	4	P10451	OSTP_HUMAN	4	1
P-4EBP1	Q13541	5704,5	4	Q13541	4EBP1_HUMAN	8	1
P-AKT (ser473)	P31749	2536,25	4	X			
P-AKT (Substrate)	P31749	1054,25	4	X			
p-AKT (T308)	P31749	2183,33333	3	X			
P-AS160	O60343	4884,25	4	X			
P-ATR (ser428)	Q13535	2809	3	X			
P-BLNK	Q8WV28	3850,25	4	Q8WV28	BLNK_HUMAN	10	1
P-BRCA1 (ser1524)	P38398	1877	4	X			
P-Btk	Q06187	4218,75	4	Q06187	BTK_HUMAN	X	10
P-c-Cbl	Q9ULV8	3977,25	4	X			
P-C-MYC	P01106	3826,25	4	X			
P-CD19	P15391	10544,75	4	X			
P-CD79A	P11912	2568,75	4	X			
P-CDC2	P06493	5620,25	4	X			
P-CHK2 (t68)	O96017	5361,75	4	X			
p-ERK	P28482	2751	3	P28482	MK01_HUMAN	22	6
P-GAB1 (tyr 627)	Q13480	15884,75	4	X			
p-Lyn T	P07948	5310,75	4	P07948	LYN_HUMAN	8	9
P-M-CSF	P07333	3919,25	4	X			
p-MDM2 (s116)	Q00987	633,666667	3	X			
P-MEK1/2	Q02750	1040,33333	3	Q02750	MP2K1_HUMAN	15	2
	P36507	1040,33333	3	P36507	MP2K2_HUMAN	19	2
P-p38 MAPK	Q15759	19074	4	X			

P-p44/42 MPK (Erk 1/2)	Q9BQA1	2555,25	4	Q9BQA1	MEP50_HUMAN	1	2
	Q8IZL9	2555,25	4	X			
p-PDGFR-B	P09619	17319	4	X			
P-PLCy2	P16885	4185,75	4	P16885	PLCG2_HUMAN	16	26
P-RB (s807/811)	P06400	3423	4	X			
P-S6 (ser235/236)	P62753	1180	3	P62753	RS6_HUMAN	9	7
P-Src family	P12931	2598,75	4	X			
P-STAT3	P40763	17334,5	4	P40763	STAT3_HUMAN	17	4
P-SyK	P43405	4132,25	4	P43405	KSYK_HUMAN	9	28
P-TYR	P14679	16732	4	X			
P-VEGFR2 (Y1212)	P35968	9669,91489	4	X			
P-Zap 70	P43403	4684,25	4	P43403	ZAP70_HUMAN	2	3
p21	P38936	16113,25	4	X			
p21Waf/Cip1	P38936	668,333333	3	X			
p27Kip1	P46527	6292	4	P46527	CDN1B_HUMAN	12	4
p38_MM6	Q15759	6587	4	X			
PCKIT	P10721	1839,66667	3	X			
PDGFR-B	P09619	14589,75	4	X			
PDI	P07237	1489,25	4	P07237	PDIA1_HUMAN	17	17
Phospho-H2AX (ser139)	P16104	1241,66667	3	X			
Phospho-IkappaB-B(ser32)	O15111	10154,75	4	X			
Phospho-P38	Q15759	5609,5	4	X			
PhosphoHistona3(ser10)	O15379	19282,25	4	X			
PIDD	Q9HB75	18343,75	4	X			
PIM-1	P11309	13624,25	4	X			
PIM3	Q86V86	1420,333333	3	X			
PU1	P17947	2327,25	4	X			
PUMaA	Q969G8	16079,5	4	X			
Rabbit mAb ACTINA(C-2)	P63267	21378	4	X			
Rabbit pAb MCL1	Q07820	18111,25	4	X			
Rabbit pAb p-BIK	Q13323	17342	4	X			
RAIDD	P78560	1629,333333	3	X			
RB	P06400	4427,66667	3	X			
Rb pAb anti CSF	P09603	9317,75	4	X			
Rb pAb Anti IFN g	P01579	6508,333333	3	X			
Rb pAb anti IL-2	P60568	7769,75	4	X			
Rb pAb anti IL-4	P05112	8064,5	4	X			
Rb pAb anti IL-6	P05231	11688,75	4	X			
Rb pAb Anti TNF a	P01375	13701,333333	3	X			
S6	P62753	995	3	P62753	RS6_HUMAN	9	7
SOCS-3	O14543	14997,75	4	X			
SOCS6	O14544	20967,75	4	X			
SOD21	P04179	2114,333333	3	P04179	SODM_HUMAN	6	2
SQSTM1	Q13501	14004,25	4	Q13501	SQSTM_HUMAN	5	1
STAT3	P40763	16734,75	4	P40763	STAT3_HUMAN	17	4
TGF-BETA	P36897	1532,66667	3	X			
TUBERIN/TSC2	P49815	339,502945	4	X			
VEGF Receptor 2	P15692	6480,75	4	X			

Tabla 63. Cruce de resultados con la base de datos de UniProt y NeXtProt para obtener el nombre canónico y con la base de datos obtenida a partir de espectrómetro de masas: subarray 4, microarray 22.

Listado de proteínas	Canonical Name	Intensidad	Spots	MS/MS	UniProt	Chromosome	Peptid-Count
4EBP1	Q13541	5780,8	5	Q13541	4EBP1_HUMAN	8	1
Acetyl-P53	P04637	4585,75	4	X			
ANTI FOS	P01100	2824,5	4	X			
Anti-human IL-6	P05231	3221	3	X			
ATF-4	P18848	8649,25	4	X			
ATF-6	P18850	11366,5	4	X			
ATIII sc-271987	P01008	4208,5	4	P01008	ANT3_HUMAN	1	12
BAK (D4E4)	Q16611	1429	3	X			
BAX	Q07812	3716,75	4	Q07812	BAX_HUMAN	19	6
BCL-2	P10415	9621,5	4	P10415	BCL2_HUMAN	18	2
BCL-XL	O15519	4133,333333	3	X			

BID	P55957	3568,25	4	X				
BIM	O43521	2724	4	X				
BIP	P11021	4546,25	4		P11021	GRP78_HUMAN	9	17
C-EBPalpha (D56F10/XPC)	Q15125	2655,25	4	X				
C-IAP1	Q13490	2353,33333	3		Q13490	BIRC2_HUMAN	11	1
CALNEXIN	P27824	2557,66667	3		P27824	CALX_HUMAN	5	16
CASPASA2	P42575	10448,5	4	X				
CASPASA3	P42574	3676,33333	3		P42574	CASP3_HUMAN	4	1
CASPASA7	P55210	3040	3	X				
CD 21 sc-13135	Q9HBE5	5746	4	X				
CDC2 (POH1)	P06493	4208,25	4	X				
CyclinB1	P14635	9911,75	4	X				
E2F1	Q01094	3592,33333	3	X				
EG5	P52732	2911	3	X				
ERK2	P28482	8921,5	4		P28482	MK01_HUMAN	22	6
FGF-13	Q92913	9340,25	4	X				
FLG(C-15)	Q9UDF2	9518,25	4	X				
FOSB	P53539	1260,5	4	X				
GAPDH	P04406	2820,66667	3		P04406	G3P_HUMAN	12	31
HCAM sc-9960	P16070	6201	4		P16070	CD44_HUMAN	11	7
HDAC6	Q9UBN7	14331	3	X				
HGF-a	Q04756	8857,75	4		Q04756	HGFA_HUMAN	4	8
HSF-1	Q00613	4559	3	X				
HSP60	P10809	1127,25	4		P10809	CH60_HUMAN	2	25
IGF-IrB	P08069	11136	4	X				
IkB-a(H-4)	P25963	10345	4	X				
IRF4	Q15306	8047	4		Q15306	IRF4_HUMAN	6	1
junB	P17275	3102,5	4	X				
MAX	P61244	9127	4		P61244	MAX_HUMAN	14	1
MCL1	Q07820	11901	4	X				
MDM2	Q00987	10633	4	X				
Mouse mAb CATHEPSIN	P43235	7882,5	4	X				
N-FATc1	O95644	11158,25	4	X				
NEUREGULIN-3	P56974	10005,5	4	X				
NFKappaBP65	Q04206	10460,5	4		Q04206	TF65_HUMAN	11	2
NOXA	Q13794	8652,75	4	X				
OPN sc-21742	P10451	6422	3		P10451	OSTP_HUMAN	4	1
P-4EBP1	Q13541	2683,66667	3		Q13541	4EBP1_HUMAN	8	1
P-AKT (ser473)	P31749	2789,25	4	X				
P-AKT (Substrate)	P31749	3892,66667	3	X				
P-AS160	O60343	4811,33333	3	X				
P-Btk	Q06187	6898	3		Q06187	BTK_HUMAN	X	10
P-c-Cbl	Q9ULV8	5608,75	4	X				
P-CD19	P15391	3264	4	X				
P-CD79A	P11912	3646,33333	3	X				
p-ERK-MM4	P28482	1292,33333	3		P28482	MK01_HUMAN	22	6
P-GAB1 (tyr 627)	Q13480	9727,25	4	X				
p-Lyn T	P07948	5875	3		P07948	LYN_HUMAN	8	9
P-M-CSF	P07333	4049	4	X				
P-p38 MAPK	Q15759	1817,5	4	X				
p-PDGFR-B	P09619	11429,25	4	X				
P-PLCy2	P16885	5491,5	4		P16885	PLCG2_HUMAN	16	26
P-STAT3	P40763	10422,25	4		P40763	STAT3_HUMAN	17	4
P-SyK	P43405	7180,25	4		P43405	KSYK_HUMAN	9	28
P-TYR	P14679	7032,27619	4	X				
P-Zap 70	P43403	7589,5	4		P43403	ZAP70_HUMAN	2	3
p21	P38936	10580,5	4	X				
p27Kip1	P46527	5824,66667	3		P46527	CDN1B_HUMAN	12	4
p38	Q15759	6265,75	4	X				
PDGFR-B	P09619	10084,75	4	X				
Phospho-IkappaB-B(ser32)	O15111	3446,66667	3	X				
Phospho-P38	Q15759	5069,75	4	X				
PhosphoHistona3(ser10)	O15379	13659,75	4	X				
PIDD	Q9HB75	10306,5	4	X				
PIM-1	P11309	8389,75	4	X				
PUMaA	Q969G8	10734,75	4	X				
Rabbit mAb ACTINA(C-2)	P63267	7373	4	X				

Rabbit mAb p-VEGF	P15692	2514	4	X				
Rabbit pAb MCL1	Q07820	9499,33333	3	X				
Rabbit VDAC mAb	P21796	1167,66667	3	P21796	VDAC1_HUMAN	5		7
RAIDD-MM4	P78560	2018	4	X				
Rb pAb anti CSF	P09603	3457,75	4	X				
Rb pAb Anti IFN g	P01579	3202,25	4	X				
Rb pAb anti IL-2	P60568	2829,33333	3	X				
Rb pAb anti IL-4	P05112	5643,25	4	X				
Rb pAb anti IL-6	P05231	6203	3	X				
Rb pAb Anti TNF a	P01375	3050	4	X				
SOCS-3	O14543	8996,5	4	X				
SOCS6	O14544	7734,5	4	X				
SOD21	P04179	8980,27273	3	P04179	SODM_HUMAN	6		2
SQSTM1	Q13501	11484,75	4	Q13501	SQSTM_HUMAN	5		1
STAT3	P40763	8059,5	4	P40763	STAT3_HUMAN	17		4

Tabla 64. Cruce de resultados con la base de datos de UniProt y NeXtProt para obtener el nombre canónico y con la base de datos obtenida a partir de espectrómetro de masas: MIX, microarray 22.

Listado de proteínas	Canonical Name	Intensidad	Spots	MS/MS	UniProt	Chromosome	Peptid-Count
ATF-4	P18848	19720,25	4	X			
ATF-6	P18850	20276,25	4	X			
ATIII sc-271987	P01008	35265	4	P01008	ANT3_HUMAN	1	12
BCL-2	P10415	24840,5065	4	P10415	BCL2_HUMAN	18	2
CASPASA2	P42575	15768,25	4	X			
CD 21 sc-13135	Q9HBE5	30050,25	4	X			
CyclinB1	P14635	25819,7279	4	X			
ERK2	P28482	19341,75	4	P28482	MK01_HUMAN	22	6
FGF-13	Q92913	26203,4297	4	X			
HCAM sc-9960	P16070	22150,5	4	P16070	CD44_HUMAN	11	7
HDAC6	Q9UBN7	36198,25	4	X			
HGF-a	Q04756	16389	4	Q04756	HGFA_HUMAN	4	8
IGF-IrB	P08069	19322,25	4	X			
IkB-a(H-4)	P25963	19936	4	X			
IRF4	Q15306	34470,75	4	Q15306	IRF4_HUMAN	6	1
MAX	P61244	35970,75	4	P61244	MAX_HUMAN	14	1
MCL1	Q07820	28795,5	4	X			
MDM2	Q00987	20353,75	4	X			
Mouse mAb CATHEPSIN	P43235	32759,5	4	X			
N-FATc1	O95644	36970,75	4	X			
NEUREGULIN-3	P56974	35555,25	4	X			
NFKappaBP65	Q04206	21832,25	4	Q04206	TF65_HUMAN	11	2
NOXA	Q13794	25419,2778	4	X			
OPN sc-21742	P10451	28611,75	4	P10451	OSTP_HUMAN	4	1
P-GAB1 (tyr 627)	Q13480	22464,5	4	X			
p-PDGFR-B	P09619	21358	4	X			
P-STAT3	P40763	23519,25	4	P40763	STAT3_HUMAN	17	4
P-TYR	P14679	22259,25	4	X			
p21	P38936	19772	4	X			
PDGFR-B	P09619	23310,25	4	X			
PhosphoHistona3(ser10)	O15379	19931,25	4	X			
PIDD	Q9HB75	27515,25	4	X			
PIM-1	P11309	29848,5	4	X			
PUMAA	Q969G8	32699,75	4	X			
Rabbit mAb ACTINA(C-2)	P63267	11485,4539	4	X			
Rabbit pAb MCL1	Q07820	28488,25	4	X			
SOCS-3	O14543	27629,8125	4	X			
SOCS6	O14544	24206	4	X			
SQSTM1	Q13501	36132	4	Q13501	SQSTM_HUMAN	5	1
STAT3	P40763	20293,75	4	P40763	STAT3_HUMAN	17	4

Tabla 65. Cruce de resultados con la base de datos de UniProt y NeXtProt para obtener el nombre canónico y con la base de datos obtenida a partir de espectrómetro de masas: subarray 1, microarray 8.

Listado de proteínas	Canonical Name	Intensidad	Spots	MS/MS	UniProt	Chromosome	Peptid-Count
4EBP1	Q13541	3165,64286	4	Q13541	4EBP1_HUMAN	8	1
Acetyl-Histona3	P01034	3050,01724	4	X			
Acetyl-Histona4	P01036	3760,75	4	X			
AKT	P31749	3060	4	X			
ATF-6	P18850	1788	3	X			
BCL-2	P10415	4434,25	4	P10415	BCL2_HUMAN	18	2
BRCA-1	P38398	1264,33333	3	X			
HGF-a	Q04756	5432,5	4	Q04756	HGFA_HUMAN	4	8
IRF4	Q15306	3528,66667	3	Q15306	IRF4_HUMAN	6	1
NOXA	Q13794	5805,75	4	X			
P-ATR (ser428)	Q13535	2560	3	X			
P-CHK2 (t68)	O96017	2475,25	4	X			
PIM-1	P11309	3782,33333	3	X			
PRAS40	Q96B36	1666,33333	3	X			
RAS (D2C1)	P01116	2765	3	X			
SQSTM1	Q13501	2000,33333	3	Q13501	SQSTM_HUMAN	5	1
STAT3	P40763	2115	4	P40763	STAT3_HUMAN	17	4

Tabla 66. Cruce de resultados con la base de datos de UniProt y NeXtProt para obtener el nombre canónico y con la base de datos obtenida a partir de espectrómetro de masas: subarray 3, microarray 8.

Listado de proteínas	Canonical Name	Intensidad	Spots	MS/MS	UniProt	Chromosome	Peptid-Count
AKT	P31749	2225,33333	3	X			
AMPKa	Q13131	1416,66667	3	Q13131	AAPK1_HUMAN	5	1
BAX	Q07812	5743	3	Q07812	BAX_HUMAN	19	6
BID	P55957	2659,25	4	X			
BIP	P11021	4574,66667	3	P11021	GRP78_HUMAN	9	17
CASPASA2	P42575	14218	4	X			
CASPASA3	P42574	3883	4	P42574	CASP3_HUMAN	4	1
CASPASA7	P55210	9850,25	4	X			
CDC2 (POH1)	P06493	5057,33333	3	X			
E2F1	Q01094	1924	3	X			
GAPDH	P04406	1395,33333	3	P04406	G3P_HUMAN	12	31
junB	P17275	1849,33333	3	X			
MAX	P61244	1896	3	P61244	MAX_HUMAN	14	1
Mouse mAb CATHEPSIN	P43235	878,333333	3	X			
P-BLNK	Q8WV28	3224,66667	3	Q8WV28	BLNK_HUMAN	10	1
P-Btk	Q06187	4563,66667	3	Q06187	BTK_HUMAN	X	10
P-c-Cbl	Q9ULV8	2021,66667	3	X			
P-CD19	P15391	3129,75	4	X			
p-Lyn T	P07948	1692,66667	3	P07948	LYN_HUMAN	8	9
P-M-CSF	P07333	2856,66667	3	X			
P-p38 MAPK	Q15759	7096,25	4	X			
P-PLCy2	P16885	2952,66667	3	P16885	PLCG2_HUMAN	16	26
P-RB (s807/811)	P06400	5539,33333	3	X			
P-SyK	P43405	2960,25	4	P43405	KSYK_HUMAN	9	28
p27Kip1	P46527	3395	3	P46527	CDN1B_HUMAN	12	4
Phospho-IkappaB-B(ser32)	O15111	9315	4	X			
Phospho-P38	Q15759	2953	3	X			
PhosphoHistona3(ser10)	O15379	315,333333	3	X			
PIM-1	P11309	1135,66667	3	X			
Rb pAb Anti IFN g	P01579	6912,75	4	X			
Rb pAb anti IL-4	P05112	7184	3	X			
Rb pAb anti IL-6	P05231	5714	3	X			
Rb pAb Anti TNF a	P01375	6132	4	X			
SOCS-3	O14543	990,666667	3	X			

Tabla 66. Cruce de resultados con la base de datos de UniProt y NeXtProt para obtener el nombre canónico y con la base de datos obtenida a partir de espectrómetro de masas: subarray 5, microarray 8.

Listado de proteínas	Canonical Name	Intensidad	Spots	MS/MS	UniProt	Chromosome	Peptid-Count
aBCR1	P78363	1755,33333	3	X			
ABL1	P00519	2143,66667	3	X			
ATF-6	P18848	3600,33333	3	X			
BAX	Q07812	4577	4	Q07812	BAX_HUMAN	19	6
BCL-2	P10415	2335	3	P10415	BCL2_HUMAN	18	2
CASPASA2	P42575	13534,75	4	X			
P-CHK1 (ser345)	O14757	3213,25	3	X			
P-CHK2 (t68)	O96017	2822	3	X			
p-PDGFR-B	P09619	2673,33333	3	X			
P-Zap 70	P43403	2137,33333	3	P43403	ZAP70_HUMAN	2	3
p21	P38936	1158,33333	4	X			
p27Kip1	P46527	5007,5	3	P46527	CDN1B_HUMAN	12	4
p38	Q15759	4046	3	X			
PDGFR-B	P09619	1370,33333	3	X			
Rb pAb anti CSF	P09603	3254	3	X			
Rb pAb Anti IFN g	P01579	4135,33333	3	X			
Rb pAb anti IL-2	P60568	2395,25	4	X			

Tabla 66. Cruce de resultados con la base de datos de UniProt y NeXtProt para obtener el nombre canónico y con la base de datos obtenida a partir de espectrómetro de masas: subarray 6, microarray 12.

Listado de proteínas	Canonical Name	Intensidad	Spots	MS/MS	UniProt	Chromosome	Peptid-Count
4EBP1	Q13541	4507,71429	6	Q13541	4EBP1_HUMAN	8	1
Acetyl-Histona3	P01034	3518,25	4	X			
Acetyl-Histona4	P01036	3586	3	X			
AIOLOS(D1C1E)	Q9UKT9	3931,66667	3	Q9UKT9	IKZF3_HUMAN	17	2
AK1	P00568	4494,75	4	P00568	KAD1_HUMAN	9	6
AKT	P31749	4996,25	4	X			
AMPKa	Q13131	5250	4	Q13131	AAPK1_HUMAN	5	1
ATIII sc-271987	P01008	1846,66667	3	P01008	ANT3_HUMAN	1	12
BCL-2	P10415	3552,66667	3	P10415	BCL2_HUMAN	18	2
BRCA-1	P78363	6099	4	X			
CASPASA2	P42575	11535,5	4	X			
CD 21 sc-13135	Q9HBE5	2389,33333	3	X			
CD19 Clone HIB192	P15391	2095	3	X			
CyclinB1	P14635	2846,33333	3	X			
HDAC6	Q9UBN7	5022,5	4	X			
HLA-DR1	Q29744	3896,33333	3	X			
HSP60	P10809	3671	3	P10809	CH60_HUMAN	2	25
HSP70	P34932	3027,66667	3	P34932	HSP74_HUMAN	5	24
IKAROS	Q13422	6396,66667	3	Q13422	IKZF1_HUMAN	7	3
Integrinalpha6	P23229	3474,25	4	X			
IRF4	Q15306	7273,25	4	Q15306	IRF4_HUMAN	6	1
MAD-1	Q946D9	5420,66667	3	X			
MAX	P61244	6812,25	4	P61244	MAX_HUMAN	14	1
MCL1	Q07820	4988	4	X			
Mouse mAb CATHEPSIN	P43235	5114	4	X			
NEUREGULIN-3	P56974	4194	4	X			
NOXA	Q13794	5803	3	X			
P-AMPKa (T172)	Q13131	6329	3	Q13131	AAPK1_HUMAN	5	1
P-BRCA1 (ser1524)	P38398	5104,66667	3	X			
P-CHK1 (ser345)	O14757	1644,66667	3	X			
p-ERK-MM4	P28482	2885,75	4	P28482	MK01_HUMAN	22	6
P-GAB1 (tyr 627)	Q13480	8034,33333	3	X			
p-PDGFR-B	P09619	4668,5	4	X			
P-PRAS40 (t246)	Q96B36	7574,5	4	X			
P-STAT3	P40763	2771,33333	3	P40763	STAT3_HUMAN	17	4
P-TYR	P14679	4963	3	X			

p21Waf/Cip1	P38936	4137,66667	3	X				
Phospho-p53 (ser15)	P04636	2825	4	X				
PhosphoHistona3(ser10)	O15379	5534	4	X				
PIDD	Q9HB75	4588,66667	3	X				
PIM-1	P11309	8126	4	X				
PIM1(C93F2)	P11309	5721	3	X				
PRAS40_MM6	Q96B36	5539	3	X				
PUMAA	Q969G8	6090	3	X				
Rabbit mAb ACTINA(C-2)	P63267	2563	4	X				
Rabbit pAb MCL1	Q07820	6283,75	4	X				
Rabbit pAb p-BIK	Q13323	2475,66667	3	X				
RAIDD-MM4	P78560	3774,5	4	X				
RAS (D2C1)	P01116	7082	3	X				
SOCS-3	O14543	7802,66667	3	X				
SOCS6	O14544	3832,66667	3	X				
SQSTM1	Q13501	6254,33333	3	Q13501	SQSTM_HUMAN	5		1
STAT3	P40763	3159	4	P40763	STAT3_HUMAN	17		4

Tabla 66. Cruce de resultados con la base de datos de UniProt y NeXtProt para obtener el nombre canónico y con la base de datos obtenida a partir de espectrómetro de masas: subarray 7, microarray 12.

Listado de proteínas	Canonical Name	Intensidad	Spots	MS/MS	UniProt	Chromosome	Peptid-Count
Acetyl-Histona3	P01034	5690,5	4	X			
Acetyl-Histona4	P01036	6510,25	4	X			
AIF	P55008	8157,66667	3	X			
AK1	P00568	5434,33333	3	P00568	KAD1_HUMAN	9	6
AKT	P31749	7524	4	X			
Anti-GM-CSF	P04141	5179,33333	3	X			
Anti-human IL-21	P60568	1165,33333	3	X			
Anti-human IL-6	P05231	2483,66667	3	X			
ATF-4	P18848	2914,33333	3	X			
ATF-6	P18850	3922,33333	3	X			
ATIII sc-271987	P01008	5775,75	4	P01008	ANT3_HUMAN	1	12
BRCA-1	P38398	938,33333	3	X			
C-EBPalpha	Q15125	4399,75	4	X			
CASPASA12	Q6UXS9	1850,66667	3	X			
CASPASA2	P55210	9330,25	4	X			
CD 21 sc-13135	Q9HBE5	7440,5	4	X			
CDC2 (POH1)	P06493	5641,25	4	X			
CDC25A	P30304	4726,5	4	X			
Cleaved PARP (asp214)	P09874	5268	4	P09874	PARP1_HUMAN	1	23
COX IV	P13073	2039,33333	3	P13073	COX4I_HUMAN	16	2
E2F1	Q01094	1532,66667	3	X			
EG5	P52732	6897	3	X			
Enolase1	P06733	2845,33333	3	P06733	ENOA_HUMAN	1	21
ERK2	P28482	2769,33333	3	P28482	MK01_HUMAN	22	6
FGF-13	Q92913	1934,66667	3	X			
FLG(C-15)	Q9UDF2	6130,66667	3	X			
GLUT1	P11166	2337,33333	3	P11166	GTR1_HUMAN	1	1
HCAM sc-9960	P16070	3285,75	4	P16070	CD44_HUMAN	11	7
HDAC6	Q9UBN7	4548,5	4	X			
HEXOKINASE II	P52789	3963,25	4	X			
HGF-a	Q04756	5440	4	Q04756	HGFA_HUMAN	4	8
HLA-DR1	Q29744	5904	3	X			
HSF-1	Q00613	5856,5	4	X			
HSP40	P25685	3230,25	4	P25685	DNJB1_HUMAN	19	3
HSP60	P10809	4990,25	4	P10809	CH60_HUMAN	2	25
Integrinalpha6	P23229	2376,66667	3	X			
IRF4	Q15306	4894	3	Q15306	IRF4_HUMAN	6	1
LDHA	Q29744	1807,66667	3	X			
MAD-1	Q9Y6D9	2576,66667	3	X			
MAX	P61244	6046,33333	3	P61244	MAX_HUMAN	14	1
MDM2 - 2	Q00987	4654,33333	3	X			
MDM2	Q00987	4831,66667	3	X			

Mouse mAb CATHEPSIN	P43235	6385,5	4	X				
N-FATc1	O95644	5980	3	X				
NEUREGULIN-3	P56974	3002	4	X				
NOXA	Q13794	6018,5	4	X				
P-4EBP1	Q13541	4666	3	X	Q13541	4EBP1_HUMAN	8	1
P-AKT (ser473)	P31749	3624,5	4	X				
P-CHK2 (t68)	O96017	2534,66667	3	X				
p-ERK-MM4	P28482	5914,75	4	X	P28482	MK01_HUMAN	22	6
P-GAB1 (tyr 627)	Q13480	4820,5	4	X				
P-p38 MAPK	Q15759	2350,66667	3	X				
p-PDGFR-B	P09619	3208,5	4	X				
P-STAT3	P40763	6234,5	4	X	P40763	STAT3_HUMAN	17	4
P-TYR	P14679	6315,66667	3	X				
P-VEGFR2 (Y1212)	P35968	3137	3	X				
PhosphoHistona3(ser10)	O15379	5475,66667	3	X				
PIM-1	P11309	3187,5	4	X				
PUMAA	Q969G8	6091	3	X				
Rabbit mAb ACTINA(C-2)	P63267	8519	4	X				
Rabbit pAb MCL1	Q07820	7073	4	X				
Rabbit pAb p-BIK	Q13323	3769	4	X				
RAIDD-MM4	P78560	5156,25	4	X				
Rb pAb Anti IFN g	P05231	4624,33333	3	X				
Rb pAb anti IL-2	P05112	1111,66667	3	X				
Rb pAb anti IL-4	P05112	1938	4	X				
Rb pAb anti IL-6	P05231	5940,25	4	X				
Rb pAb Anti TNF a	P01375	6548,66667	3	X				
SOCS-3	O14543	5225	4	X				
SOCS6	O14544	5761,5	4	X				
SQSTM1	Q13501	4570,66667	3	X	Q13501	SQSTM_HUMAN	5	1
STAT3	P40763	6446	4	X	P40763	STAT3_HUMAN	17	4
VEGF Receptor 2	P15692	4567	3	X				

Tabla 67. Cruce de resultados con la base de datos de UniProt y NeXtProt para obtener el nombre canónico y con la base de datos obtenida a partir de espectrómetro de masas: subarray 8, microarray 12.

Listado de proteínas	Canonical Name	Intensidad	Spots	MS/MS	UniProt	Chromosome	Peptid-Count
ATF-4	P18848	1993,66667	3	X			
ATF-6	P18850	4944,66667	3	X			
ATIII sc-271987	P01008	2850,5	4	X	P01008	ANT3_HUMAN	1
BCL-2	P10415	11557	4	X	P10415	BCL2_HUMAN	18
CASPASA2	P55210	2048	3	X			
CD 21 sc-13135	Q9HBE5	5885,25	4	X			
CyclinB1	P14635	5089,25	4	X			
ERK2	P28482	3195	3	X	P28482	MK01_HUMAN	22
FGF-13	Q92913	4874	4	X			
FLG(C-15)	Q9UDF2	2893,5	4	X			
HCAM sc-9960	P16070	4778,66667	3	X	P16070	CD44_HUMAN	11
HGF-a	Q04756	9198,5	4	X	Q04756	HGFA_HUMAN	4
IGF-IrB	P08069	2342,33333	3	X			
IkB-a(H-4)	P25963	4508,33333	3	X			
IRF4	Q15306	6462	3	X	Q15306	IRF4_HUMAN	6
MAX	P61244	8686,75	4	X	P61244	MAX_HUMAN	14
MCL1	Q07820	3279	3	X			
Mouse mAb CATHEPSIN	P43235	6026,5	4	X			
N-FATc1	O95644	6729,5	4	X			
NEUREGULIN-3	P56974	6123,75	4	X			
NFKappaBP65	Q04206	5427,33333	3	X	Q04206	TF65_HUMAN	11
NOXA	Q13794	12209,5	4	X			
OPN sc-21742	P10451	4202	3	X	P10451	OSTP_HUMAN	4
P-STAT3	P40763	2428,75	4	X	P40763	STAT3_HUMAN	17
P-TYR	P14679	5812,66667	3	X			
p21	P38936	5616,25	4	X			
PDGFR-B	P09619	9310,25	4	X			

PhosphoHiston3(ser10)	O15379	6608,33333	3	X				
PIDD	Q9HB75	6188,66667	3	X				
PUMAA	Q969G8	5107,16849	4	X				
Rabbit mAb ACTINA(C-2)	P63267	2022,46887	4	X				
Rabbit pAb MCL1	Q07820	7009	4	X				
SOCS-3	O14543	6153	3	X				
SOCS6	O14544	8446,5	4	X				
SQSTM1	Q13501	4009,5	4	Q13501	SQSTM_HUMAN	5		1
STAT3	P40763	10269,25	4	P40763	STAT3_HUMAN	17		4

Tabla 68. Cruce de resultados con la base de datos de UniProt y NeXtProt para obtener el nombre canónico y con la base de datos obtenida a partir de espectrómetro de masas: subarray 9, microarray 12.

Listado de proteínas	Canonical Name	Intensidad	Spots	MS/MS	UniProt	Chromosome	Peptid-Count
Acetyl-Histona3	P01034	12127,33333	3	X			
AIF	P55008	12408,66667	3	X			
GLUT1	P11166	11180	3	P11166	GTR1_HUMAN	1	1
HEXOKINASE II	P52789	3058,66667	3	X			
HGF-a	Q04756	4090,66667	3	Q04756	HGFA_HUMAN	4	8
Rabbit pAb MCL1	Q07820	7411	3	X			
SOCS6	O14543	12119	3	X			

Tabla 69. Cruce de resultados con la base de datos de UniProt y NeXtProt para obtener el nombre canónico y con la base de datos obtenida a partir de espectrómetro de masas: subarray 11, microarray 16.

Listado de proteínas	Canonical Name	Intensidad	Spots	MS/MS	UniProt	Chromosome	Peptid-Count
4EBP1	Q13541	1381	6	Q13541	4EBP1_HUMAN	8	1
AKT	P31749	1742	3	X			
Anti-human IL-5	P05113	1815,25	4	X			
Anti-human IL-6	P05231	2123,5	4	X			
CASPASA2	P42575	9318	4	X			
HSP70	P34932	3444,33333	3	P34932	HSP74_HUMAN	5	24
NFKB2 p100/p52	Q00653	1285,25	4	Q00653	NFKB2_HUMAN	10	6
Nucleolin	P19338	2161,66667	3	P19338	NUCL_HUMAN	2	40
p-AKT (T308)	P31749	7219,5	4	X			
p-ERK-MM4	P28482	2837	3	P28482	MK01_HUMAN	22	6
P-GAB1 (tyr 627)	Q13480	1839,66667	3	X			
PRAS40	Q96B36	1294,66667	3	X			
Rb pAb anti IL-8	P10145	3767	3	X			

Tabla 70. Cruce de resultados con la base de datos de UniProt y NeXtProt para obtener el nombre canónico y con la base de datos obtenida a partir de espectrómetro de masas: subarray 12, microarray 16.

Listado de proteínas	Canonical Name	Intensidad	Spots	MS/MS	UniProt	Chromosome	Peptid-Count
4EBP1	Q13541	2342,25	4	Q13541	4EBP1_HUMAN	8	1
aBCR1	P78363	2485,75	4	X			
ABL1	P00519	3248,66667	3	X			
AIOLOS(DIC1E)	Q9UKT9	498,333333	3	Q9UKT9	IKZF3_HUMAN	17	2
AMPKa	Q13131	1330	3	Q13131	AAPK1_HUMAN	5	1
ANTI JUN	P05412	2436,75	4	X			
Anti-human HLA-DR1	Q29744	725,333333	3	X			
Anti-human IL-5	P05113	5376,66667	3	X			
Anti-human IL-6	P05231	4099,25	4	X			
Anti-human IL-8	P10145	2544,5	4	X			
ATF-4	P18848	6813,5	4	X			

ATF-6	P18850	7403	4	X				
ATIII sc-271987	P01008	5588	4	P01008	ANT3_HUMAN	1		12
BCL-2	P10415	6534,33333	3	P10415	BCL2_HUMAN	18		2
BRCA-1	P38398	2474,66667	3	X				
C-EBPalpha (D56F10/XPC)	Q15125	1241,66667	3	X				
C-MYC	P01106	3919,33333	3	X				
CALNEXIN	P27824	4511	4	P27824	CALX_HUMAN	5		16
CASPASA2-MM7	P55210	8423,75	3	X				
CD 21 sc-13135	Q9HBE5	2425	3	X				
CRBN	Q96SW2	1941,33333	4	X				
CyclinB1	P14635	7338,75	3	X				
EG5	P52732	536	4	X				
ERK2	P28482	7044,75	4	P28482	MK01_HUMAN	22		6
FGF-13	Q92913	7825,25	4	X				
FLG(C-15)	Q9UDF2	6451,75	4	X				
GAPDH	P04406	814	4	P04406	G3P_HUMAN	12		31
HCAM sc-9960	P16070	3461,25	4	P16070	CD44_HUMAN	11		7
HDAC6	Q9UBN7	6537	4	X				
HGF-a	Q04756	4294	4	Q04756	HGFA_HUMAN	4		8
HLA-DR1	Q29744	1284,50182	4	X				
HSP40	P25685	1587,5	3	P25685	DNJB1_HUMAN	19		3
HSP60	P10809	2405,66667	4	P10809	CH60_HUMAN	2		25
HSP90	P07900	2181	4	P07900	HS90A_HUMAN	14		18
IGF-IrB	P08069	7982,5	4	X				
IKAROS	Q13422	3012	4	Q13422	IKZF1_HUMAN	7		3
IkB-a(H-4)	P25963	6287,5	4	X				
IRF4	Q15306	6237,25	4	Q15306	IRF4_HUMAN	6		1
MAX	P61244	7374,5	4	P61244	MAX_HUMAN	14		1
MCL1	Q07820	5509,25	4	X				
MCL1	Q07820	2821	4	X				
MDM2	Q00987	7119,25	4	X				
MEK1/2	Q02750	2273	3	Q02750	MP2K1_HUMAN	15		2
	P36507	2273	3	P36507	MP2K2_HUMAN	19		2
Mouse mAb CATHEPSIN	P43235	3454	4	X				
N-FATc1	O95644	6078,5	4	X				
NEUREGULIN-3	P56974	6292	4	X				
NFKappaBP65	Q04206	6570,5	4	Q04206	TF65_HUMAN	11		2
NFKB2 p100/p52	Q00653	2597	4	Q00653	NFKB2_HUMAN	10		6
NOXA	Q13794	4555,75	4	X				
OPN sc-21742	P10451	4197	4	P10451	OSTP_HUMAN	4		1
p-AKT (T308)	P31749	3329,75	4	X				
P-CRAF (ser 338)	P04049	1860	4	X				
p-ERK-MM4	P28482	1725,33333	3	P28482	MK01_HUMAN	22		6
P-GAB1 (tyr 627)	Q13480	7237	4	X				
P-GSK3B	P49841	2386,66667	3	X				
p-MDM2 (s116)	Q00987	2320,66667	3	X				
P-MEK1/2	Q02750	1957,25	4	Q02750	MP2K1_HUMAN	15		2
	P36507	1957,25	4	P36507	MP2K2_HUMAN	19		2
p-PDGFR-B	P09619	7308,25	4	X				
P-PRAS40 (t246)	Q96B36	1544,66667	3	X				
P-STAT3	P40763	7351	4	P40763	STAT3_HUMAN	17		4
P-TYR	P14679	5885,5	4	X				
p21	P38936	7273,25	4	X				
P53	P04637	2864,75	4	X				
PDGFR-B	P09619	7438,25	4	X				
PDI	Q7Z2X4	1674,25	4	Q7Z2X4	BIRC2_HUMAN	11		1
Phospho-H2AX (ser139)	P16104	2583,75	4	X				
PhosphoHistona3(ser10)	O15379	9829	4	X				
PI3K	Q9HB75	6978,5	4	X				
PIM-1	P11309	6131	4	X				
PIM1(C93F2)	P11309	2797,33333	3	X				
PIM3	Q86V86	2553	4	X				
PU1	P17947	2622	3	X				
PUMaA	Q969G8	5670,75	4	X				
Rabbit mAb ACTINA(C-2)	P63267	3256	4	X				
Rabbit pAb MCL1	Q07820	3314,5	4	X				
Rabbit VDAC mAb	P21796	1483,25	4	P21796	VDAC1_HUMAN	5		7

RAIDD-MM4	P78560	2382,5	4	X				
RB	P06400	794	3	X				
Rb pAb anti IL-81	P10145	2152,5	4	X				
S6	P62753	2350,5	4	P62753	RS6_HUMAN	9		7
SOCS-3	O14543	6748,75	4	X				
SOCS6	O14544	3758,25	4	X				
SOD21	P04179	2553	4	P04179	SODM_HUMAN	6		2
SQSTM1	Q13501	5837,75	4	Q13501	SQSTM_HUMAN	5		1
STAT3	P40763	3412,75	4	P40763	STAT3_HUMAN	17		4

Tabla 71. Cruce de resultados con la base de datos de UniProt y NeXtProt para obtener el nombre canónico y con la base de datos obtenida a partir de espectrómetro de masas: subarray 13, microarray 16.

Listado de proteínas	Canonical Name	Intensidad	Spots	MS/MS	UniProt	Chromosome	Peptid-Count
aBCR1	P78363	2204,75	4	X			
ABL1	P00519	3053,33333	3	X			
AIOLOS(D1C1E)	Q9UKT9	979,333333	3	Q9UKT9	IKZF3_HUMAN	17	2
Anti-human HLA-DR1	Q29744	1168,5	4	X			
Anti-human IL-6	P05231	1782,66667	3	X			
ATF-4	P18848	3278,5	4	X			
ATF-6	P18850	2448,66667	3	X			
BLC1	P24385	1402,66667	3	X			
CASPASA2	P55210	4790,5	4	X			
CD19 Clone HIB192	P15391	1965	3	X			
CyclinB1	P14635	3888,66667	3	X			
EG5	P52732	736	3	X			
ERK2	P28482	1140,33333	3	P28482	MK01_HUMAN	22	6
FLG(C-15)	Q9UDF2	3848,75	4	X			
HDAC6	Q9UBN7	2569,75	4	X			
HLA-DR1	Q29744	2772,25	4	X			
HSP40	P25685	1041,66667	3	P25685	DNJB1_HUMAN	19	3
HSP60	P10809	1147,25	4	P10809	CH60_HUMAN	2	25
HSP90	P07900	485,333333	3	P07900	HS90A_HUMAN	14	18
IKAROS	Q13422	1354,66667	3	Q13422	IKZF1_HUMAN	7	3
Ikb-a(H-4)	P25963	3069	3	X			
MAX	P61244	1748	3	P61244	MAX_HUMAN	14	1
MCL1	Q07820	2849	4	X			
MDM2	Q00987	1731,7234	4	X			
Mouse mAb p161	P42771	1375,5	4	X			
N-FATc1	O95644	2089,75	4	X			
NEUREGULIN-3	P56974	3305	4	X			
Nucleolin	P19338	1190	3	P19338	NUCL_HUMAN	2	40
p-AKT (T308)	P31749	1931,66667	3	X			
P-AMPKa (T172)	Q13131	588,75	4	Q13131	AAPK1_HUMAN	5	1
p-ERK	P28482	1506,75	4	P28482	MK01_HUMAN	22	6
P-GAB1 (tyr 627)	Q13480	954,333333	3	X			
p-PDGFR-B	P09619	1522,66667	3	X			
P-PRAS40 (t246)	Q96B36	1160	3	X			
P-STAT3	P40763	2277,25	4	P40763	STAT3_HUMAN	17	4
P-TYR	P14679	2246	4	X			
p21	P38936	816,75	4	X			
P53	P04637	475,75	4	X			
PDGFR-B	P09619	1529	4	X			
PhosphoHistona3(ser10)	O15379	1648	3	X			
PIDD	Q9HB75	2062,75	4	X			
PRAS40	Q96B36	2407,33333	3	X			
PUMAA	Q969G8	3933,33333	3	X			
RAIDD	P78560	1577,75	4	X			
Rb pAb anti IL-81	P10145	2412,25	4	X			
SOCS-3	O14543	1285	3	X			
SOD21	P04179	2513	3	P04179	SODM_HUMAN	6	2
SQSTM1	Q13501	1611,75	4	Q13501	SQSTM_HUMAN	5	1

Tabla 71. Cruce de resultados con la base de datos de UniProt y NeXtProt para obtener el nombre canónico y con la base de datos obtenida a partir de espectrómetro de masas: subarray 15, microarray 18.

Listado de proteínas	Canonical Name	Intensidad	Spots	MS/MS	UniProt	Chromosome	Peptid-Count
aBCR1	P78363	4138,75	4	X			
AK1	P00568	1095	3	P00568	KAD1_HUMAN	9	6
Anti-human IL-5	P05113	543	3	X			
Anti-human IL-6	P05231	469,666667	3	X			
CASPASA2	P55210	12497	4	X			
GLUT1	P11166	658	3	P11166	GTR1_HUMAN	1	1
IGF-IrB	P08069	1019	3	X			
p-AKT (T308)	P31749	1839	4	X			

Tabla 72. Cruce de resultados con la base de datos de UniProt y NeXtProt para obtener el nombre canónico y con la base de datos obtenida a partir de espectrómetro de masas: subarray 16, microarray 18.

Listado de proteínas	Canonical Name	Intensidad	Spots	MS/MS	UniProt	Chromosome	Peptid-Count
4EBP1	Q13541	395,333333	3	Q13541	4EBP1_HUMAN	8	1
a-Tubulina	Q71U36	4525,5	4	X			
AK1	P00568	2368	4	P00568	KAD1_HUMAN	9	6
ANTI CHEMOKINE	P25025	3164,33333	3	X			
ANTI FOS	P01100	5246,33333	4	X			
ANTI JUN-MM8	P05412	4315	4	X			
Anti-GM-CSF	P04141	6098,25	4	X			
Anti-human IL-5	P05113	5592,25	4	X			
Anti-human IL-6	P05231	7277,75	4	X			
Anti-human IL-8	P10145	2774,75	4	X			
ATF-4	P18848	3281,75	4	X			
ATF-6	P18850	2294,5	3	X			
BCL-2	P10415	3761,66667	4	P10415	BCL2_HUMAN	18	2
CASPASA2	P55210	14750,25	4	X			
CD19 Clone HIB192	P15391	2853,66667	4	X			
CRBN-MM9	Q96SW2	5642,25	4	X			
CXCR4-MM8	P61073	3302,25	4	P61073	CXCR4_HUMAN	2	1
CyclinB1	P14635	2145,25	4	X			
ERK2	P28482	3564,75	4	P28482	MK01_HUMAN	22	6
FGF-13	Q92913	3055	4	X			
FLG(C-15)	Q9UDF2	3704,75	4	X			
HDAC6	Q9UBN7	6584,75	3	X			
HGF-a	Q04756	5919	4	Q04756	HGFA_HUMAN	4	8
HIF1a	Q16665	1036,33333	4	X			
IGF-IrB	P08069	3663,25	3	X			
Ikb-a(H-4)	P25963	3705,25	4	X			
Integralpha6	P23229	1074,33333	4	X			
IRF4	Q15306	5209,75	4	Q15306	IRF4_HUMAN	6	1
MAX	P61244	5212,5	4	P61244	MAX_HUMAN	14	1
MCL1	Q07820	2594,5	3	X			
MDM2 - 2	Q00987	2598	4	X			
MDM2	Q00987	3730	4	X			
N-FATc1	O95644	4792	4	X			
NEUREGULIN-3	P56974	7163,75	4	X			
NFKappaBP65	Q04206	2740,75	4	Q04206	TF65_HUMAN	11	2
NOXA	Q13794	5203,75	4	X			
p-ERK-MM4	P28482	4209,75	4	P28482	MK01_HUMAN	22	6
P-GAB1 (tyr 627)	Q13480	5983,5	4	X			
p-PDGFR-B	P09619	6035,5	4	X			
P-STAT3	P40763	3732	3	P40763	STAT3_HUMAN	17	4
P-TYR	P14679	5655,5	3	X			
P-VEGFR2 (y1175)	P35968	521	3	X			
p21	P38936	4610,66667	4	X			
PCKIT	P10721	716,333333	4	X			
PDGFR-B	P09619	6600	4	X			

PhosphoHistona3(ser10)	O15379	5133	4	X			
PIDD	Q9HB75	7289	3	X			
PIM-1	P11309	5006,5	4	X			
PIM1(C93F2)	P11309	2438,33333	4	X			
PU1	P17947	1119,5	3	X			
PUMAA	Q969G8	7655,5	4	X			
Rabbit mAb ACTINA(C-2)	P63267	2994,33333	4	X			
RAIDD-MM4	P78560	4961,75	4	X			
Rb pAb Anti IFN g	P05231	3591	4	X			
SOCS-3	O14543	5206,75	4	X			
SOCS6	O14544	6358,5	4	X			
SQSTM1	Q13501	6412	4	Q13501	SQSTM_HUMAN	5	1
STAT3	P40763	5171,75	4	P40763	STAT3_HUMAN	17	4
VEGF Receptor 2	P15692	4118,75	4	X			

Tabla 72. Cruce de resultados con la base de datos de UniProt y NeXtProt para obtener el nombre canónico y con la base de datos obtenida a partir de espectrómetro de masas: subarray 17, microarray 18.

Listado de proteínas	Canonical Name	Intensidad	Spots	MS/MS	UniProt	Chromosome	Peptid-Count
4EBP1	Q13541	1155,33333	3	Q13541	4EBP1_HUMAN	8	1
ANTI CHEMOKINE	P25025	1486,66667	3	X			
ANTI FOS	P01100	3170	4	X			
Anti-human IL-5	P05113	2272	3	X			
Anti-human IL-6	P05231	2250,25	4	X			
Anti-human IL-8	P10145	1497,75	4	X			
ATF-4	P18848	1938	3	X			
ATF-6	P18850	982,5	4	X			
CASPASA2	P55210	9560,25	4	X			
HDAC6	Q9UBN7	3203	4	X			
IGF-IrB	P08069	447,333333	3	X			
IkB-a(H-4)	P25963	257,333333	3	X			
P-AMPKa (T172)	Q13131	187	3	Q13131	AAPK1_HUMAN	5	1
p-ERK	P28482	2622,33333	3	P28482	MK01_HUMAN	22	6
P-STAT3	P40763	2408,5	4	P40763	STAT3_HUMAN	17	4
PDGFR-B	P09619	916,333333	3	X			
RAIDD	P78560	2093	3	X			
Rb pAb Anti IFN g	P05231	2001,66667	3	X			
Rb pAb Anti TNF a	P01375	2055,25	4	X			
SQSTM1	Q13501	3445,75	4	Q13501	SQSTM_HUMAN	5	1
STAT3	P40763	2168	3	P40763	STAT3_HUMAN	17	4

Tabla 73. Cruce de resultados con la base de datos de UniProt y NeXtProt para obtener el nombre canónico y con la base de datos obtenida a partir de espectrómetro de masas: MIX I, microarray 12.

Listado de proteínas	Canonical Name	Intensidad	Spots	MS/MS	UniProt	Chromosome	Peptid-Count
a-Tubulina	Q71U36	3971,33333	3	X			
AKT	P31749	1383,5	4	X			
ANTI CHEMOKINE CXC	P25025	3909,75	4	X			
ANTI FOS	P01100	6095,66667	3	X			
Anti-GM-CSF	P04141	5119,66667	3	X			
Anti-human IL-5	P05113	8480,33333	3	X			
Anti-human IL-6	P05231	7907,75	4	X			
ATF-6	P18850	2810,75	4	X			
BAD	Q92934	1937	3	X			
BCL-2	P10415	3091,33333	3	P10415	BCL2_HUMAN	18	2
C-EBPalpha	Q15125	1379	3	X			
C-MYC	P01106	5157,66667	3	X			
CALNEXIN	P27824	5081,5	4	P27824	CALX_HUMAN	5	16
CASPASA2	P42575	18350,75	4	X			
CASPASA9	P55211	5772,66667	3	X			

CDC2 (POH1)	P06493	8161,25	4	X				
CRBN	Q96SW2	2466	3	X				
CXCR4	P61073	4372,68125	3	P61073	CXCR4_HUMAN	2		1
CyclinB1	P14635	2413,75	4	X				
E2F1	Q01094	6860,25	4	X				
EG5	P52732	11079	4	X				
Enolase1	P06733	953	3	P06733	ENO1_HUMAN	1		21
ERK2	P28482	3151,5	4	P28482	MK01_HUMAN	22		6
FGF-13	Q92913	826,333333	3	X				
FLG(C-15)	Q9UDF2	6546,33333	3	X				
GAPDH	P04406	1474,66667	3	P04406	G3P_HUMAN	12		31
HGF-a	Q04756	2108	4	Q04756	HGFA_HUMAN	4		8
IGF-IrB	P08069	7139,5	4	X				
IkB-a(H-4)	P25963	2824,75	4	X				
Integrin α 6	P23229	2804,66667	3	X				
IRF4	Q15306	4247,66667	3	Q15306	IRF4_HUMAN	6		1
MAX	P61244	2888,33333	3	P61244	MAX_HUMAN	14		1
MCL1	Q07820	3681,25	4	X				
MDM2 - 2	Q00987	4785	4	X				
MDM2	Q00987	7821,25	4	X				
MEK1	Q02750	6222,75	4	Q02750	MP2K1_HUMAN	15		2
MEK2	P36507	6222,75	4	P36507	MP2K2_HUMAN	19		2
NFKappaBP65	Q04206	6763	3	Q04206	TF65_HUMAN	11		2
NOXA	Q13794	1238	3	X				
Nucleolin	P19338	5500,33333	3	P19338	NUCL_HUMAN	2		40
P-4EBP1	Q13541	8791,5	4	Q13541	4EBP1_HUMAN	8		1
P-AKT (ser473)	P31749	1181,66667	3	X				
P-AKT (Substrate)	P31749	3071,25	4	X				
P-B-Catenin (T41/s45)	P35222	1337	3	X				
P-BTK	Q06187	3681,33333	3	Q06187	BTK_HUMAN	X		10
P-C-MYC	P01106	4599,33333	3	X				
P-CDC2	P06493	3812,33333	3	X				
P-CRAF (ser 338)	P04049	6510,33333	3	X				
P-ERK (t202/y204)	P28482	6330,66667	3	P28482	MK01_HUMAN	22		6
P-MEK1	Q02750	6134,25	4	Q02750	MP2K1_HUMAN	15		2
P-MEK2	P36507	6134,25	4	P36507	MP2K2_HUMAN	19		2
P-RB (s807/811)	P06400	4029,75	4	X				
P-S6 (ser235/236)	P62753	6153,66667	3	P62753	RS6_HUMAN	9		7
P-STAT3	P40763	3874,5	4	P40763	STAT3_HUMAN	17		4
P-VEGFR2 (y1175)	P35968	1980,75	4	X				
PCKIT	P10721	5599,33333	3	X				
PU1	P17947	4525,66667	3	X				
Rabbit VDAC mAb	P21796	6611,33333	3	P21796	VDAC1_HUMAN	5		7
RAIDD	P78560	2980,75	4	X				
Rb pAb anti CSF	P09603	149	3	X				
Rb pAb Anti IFN g	P05231	3603	4	X				
Rb pAb Anti TNF a	P01375	2792,5	4	X				
S6	P62753	4856	4	P62753	RS6_HUMAN	9		7
TUBERIN/TSC2	P49815	7143,5	4	X				
VEGF Receptor 2	P15692	3576	3	X				

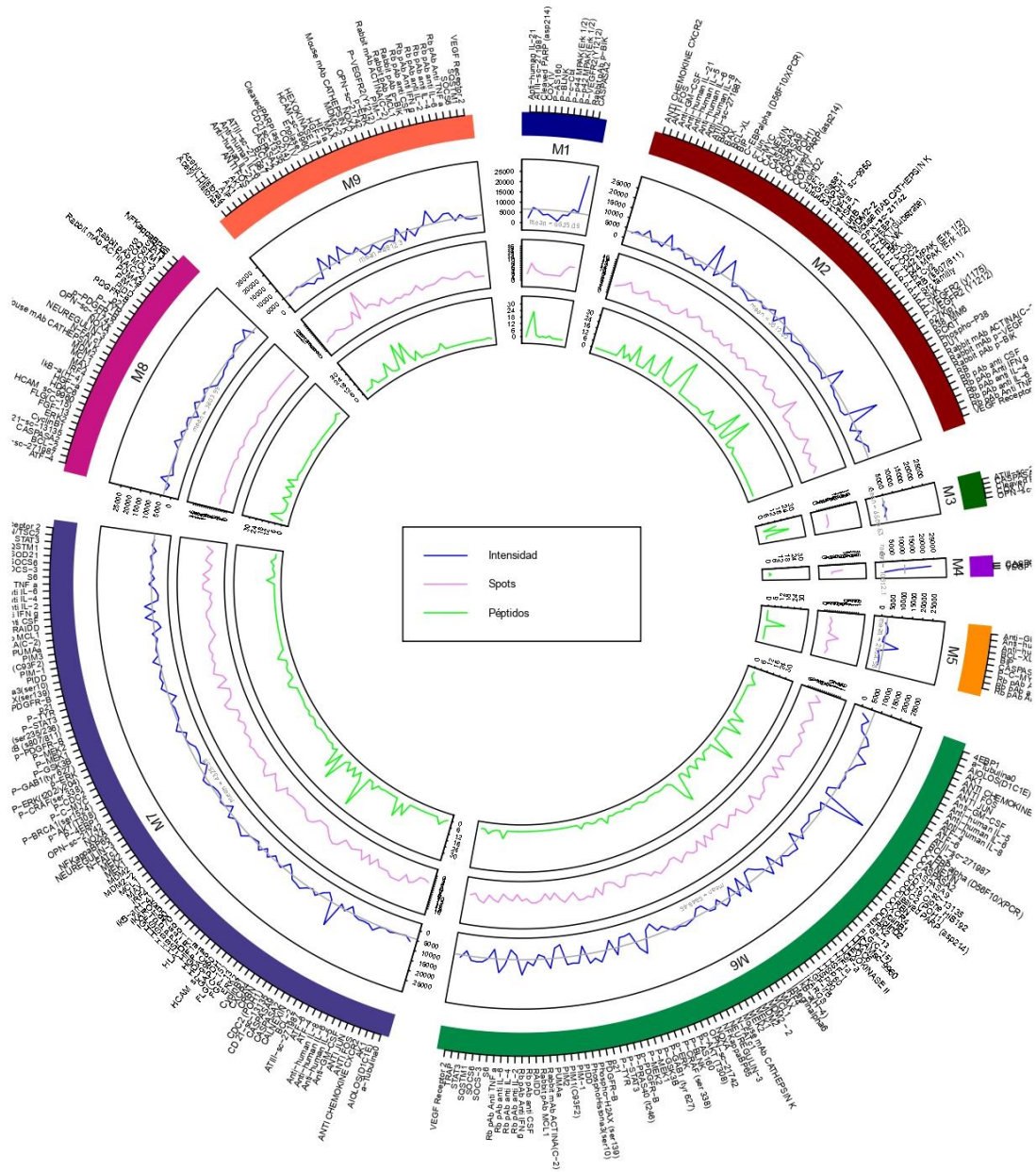
Tabla 73. Cruce de resultados con la base de datos de UniProt y NeXtProt para obtener el nombre canónico y con la base de datos obtenida a partir de espectrómetro de masas: MIX II, microarray 16.

Listado de proteínas	Canonical Name	Intensidad	Spots	MS/MS	UniProt	Chromosome	Peptid-Count
CASPASA2	P42575	14828,25	3	X			
COX IV	P13073	1732,66667	4	P13073	COX4I_HUMAN	16	2
P-VEGFR2 (Y1212)	P35968	3369,75	3	X			
Rabbit pAb MCL1	Q07820	1946	4	X			
Rabbit pAb p-BIK	Q13323	3737,75	4	X			

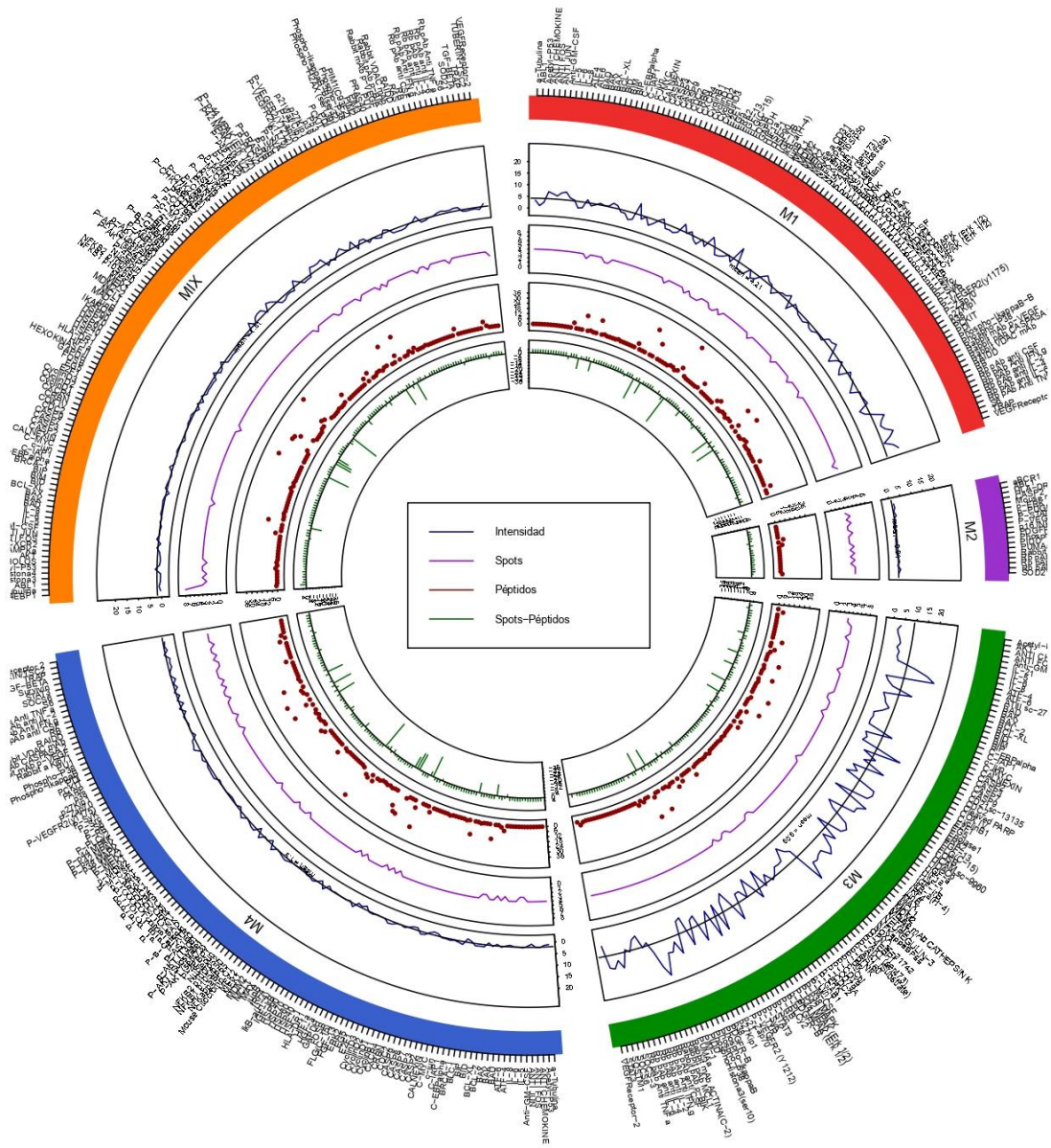
Tabla 74. Cruce de resultados con la base de datos de UniProt y NeXtProt para obtener el nombre canónico y con la base de datos obtenida a partir de espectrómetro de masas: MIX III, microarray 18.

Listado de proteínas	Canonical Name	Intensidad	Spots	MS/MS	UniProt	Chromosome	Peptid-Count
a-Tubulina	Q71U36	3162,5	4	X			
AK1	P00568	837,333333	4	P00568	KAD1_HUMAN	9	6
ANTI CHEMOKINE	P25025	4425,33333	3	X			
ANTI FOS	P01100	4201,25	3	X			
ANTI JUN	P05412	2047,75	4	X			
Anti-GM-CSF	P04141	4601,75	4	X			
Anti-human IL-5	P05113	5768,5	4	X			
Anti-human IL-6	P05231	6450	4	X			
Anti-human IL-8	P10145	5371,75	4	X			
ATF-4	P18848	4221	4	X			
ATF-6	P18850	5819,5	4	X			
BCL-2	P10415	692,75	4	P10415	BCL2_HUMAN	18	2
CASPASA2	P42575	4863,25	4	X			
CASPASA9	P55211	604,25	4	X			
CRBN	Q96SW2	3797,5	4	X			
CXCR4	P61073	3385,5	4	P61073	CXCR4_HUMAN	2	1
CyclinB1	P14635	5443	4	X			
ERK2	P28482	6948,75	4	P28482	MK01_HUMAN	22	6
FGF-13	Q92913	6509,75	4	X			
FLG(C-15)	Q9UDF2	7552,5	3	X			
HDAC6	Q9UBN7	548,666667	3	X			
HGF-a	Q04756	887	4	Q04756	HGFA_HUMAN	4	8
HIF1a	Q16665	4543,25	4	X			
IGF-IrB	P08069	6207,75	4	X			
IkB-a(H-4)	P25963	8448,25	4	X			
MAX	P61244	1505,5	4	P61244	MAX_HUMAN	14	1
MDM2 - 2	Q00987	6025,25	4	X			
MDM2	Q00987	4726,25	3	X			
MEK1/2	Q02750	1126,33333	3	Q02750	MP2K1_HUMAN	15	2
	P36507	1126,33333	3	P36507	MP2K2_HUMAN	19	2
N-FATc1	O95644	1444,66667	4	X			
NFKappaBP65	Q04206	6880,25	4	Q04206	TF65_HUMAN	11	2
NFKB1 p105/p50	Q00653	1662,5	3	Q00653	NFKB2_HUMAN	10	6
NOXA	Q13794	1571,33333	3	X			
Nucleolin	P19338	276	3	P19338	NUCL_HUMAN	2	40
p-AKT (T308)	P31749	896,333333	4	X			
P-S6 (ser235/236)	P62753	1682	4	P62753	RS6_HUMAN	9	7
P-STAT3	P40763	2174,25	4	P40763	STAT3_HUMAN	17	4
PDGFR-B	P09619	2929,5	4	X			
PIM-1	P11309	1374,75	3	X			
Rabbit mAb ACTINA(C-2)	P63267	1642,66667	3	X			
Rabbit VDAC mAb	P21796	127,666667	4	P21796	VDAC1_HUMAN	5	7
RAIDD-MM4	P78560	1880,5	3	X			
Rb pAb anti CSF	P01375	1031,33333	4	X			
Rb pAb Anti IFN g	P05231	6083,75	3	X			
Rb pAb anti IL-4	P05112	971,666667	3	X			
Rb pAb anti IL-6	P05231	1642,66667	4	X			
Rb pAb Anti TNF a	P01375	4860,75	3	X			
S6	P62753	1656	4	P62753	RS6_HUMAN	9	7
SOD21	P04179	466	4	P04179	SODM_HUMAN	6	2
TRAP	P13686	1596,25	4	X			
VEGF Receptor 2	P15692	5806	4	X			

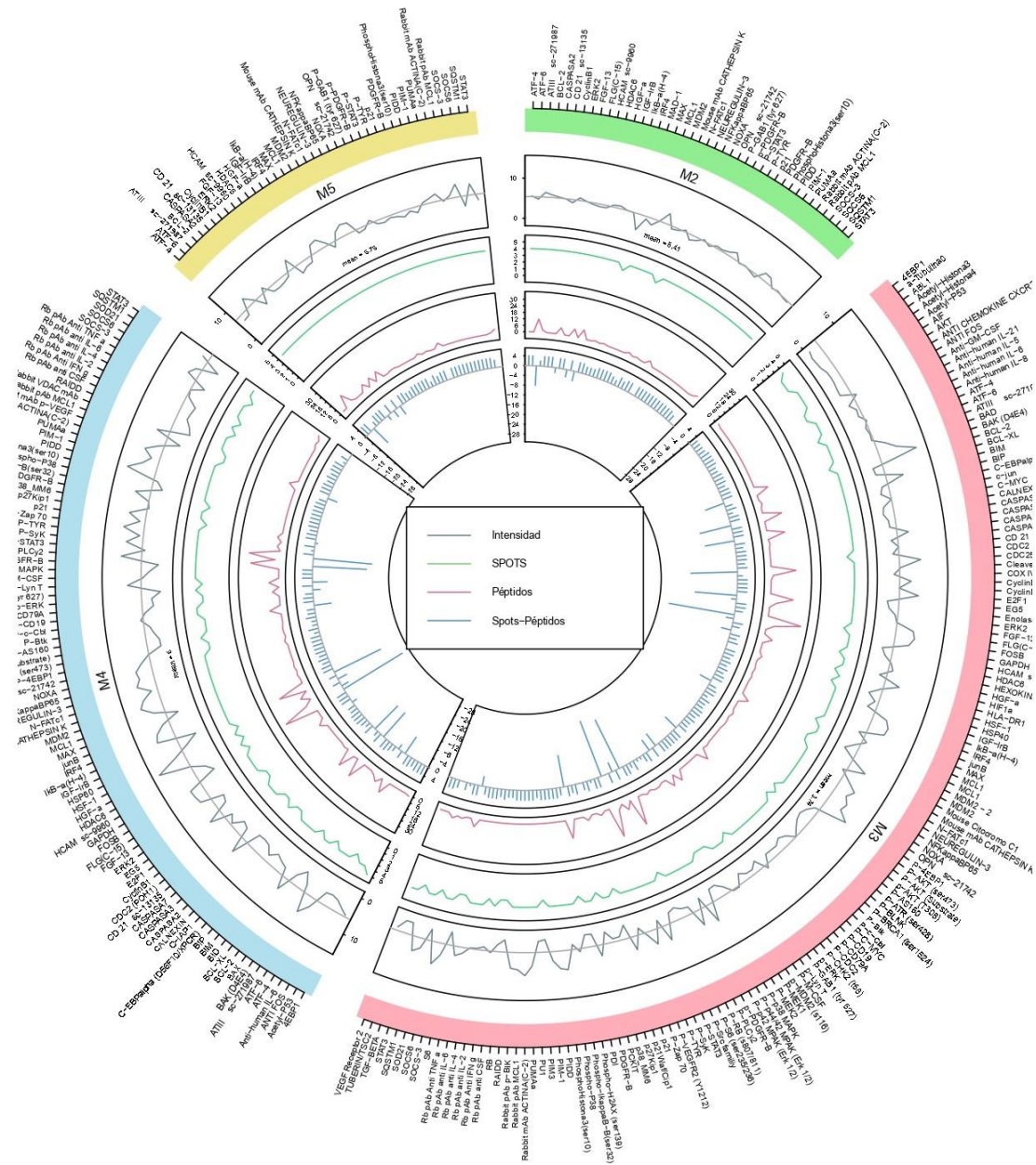
Gráfica 59. *CircoPlot* primer conjunto de microarrays (número de referencia: 3, 4, 5, 6).



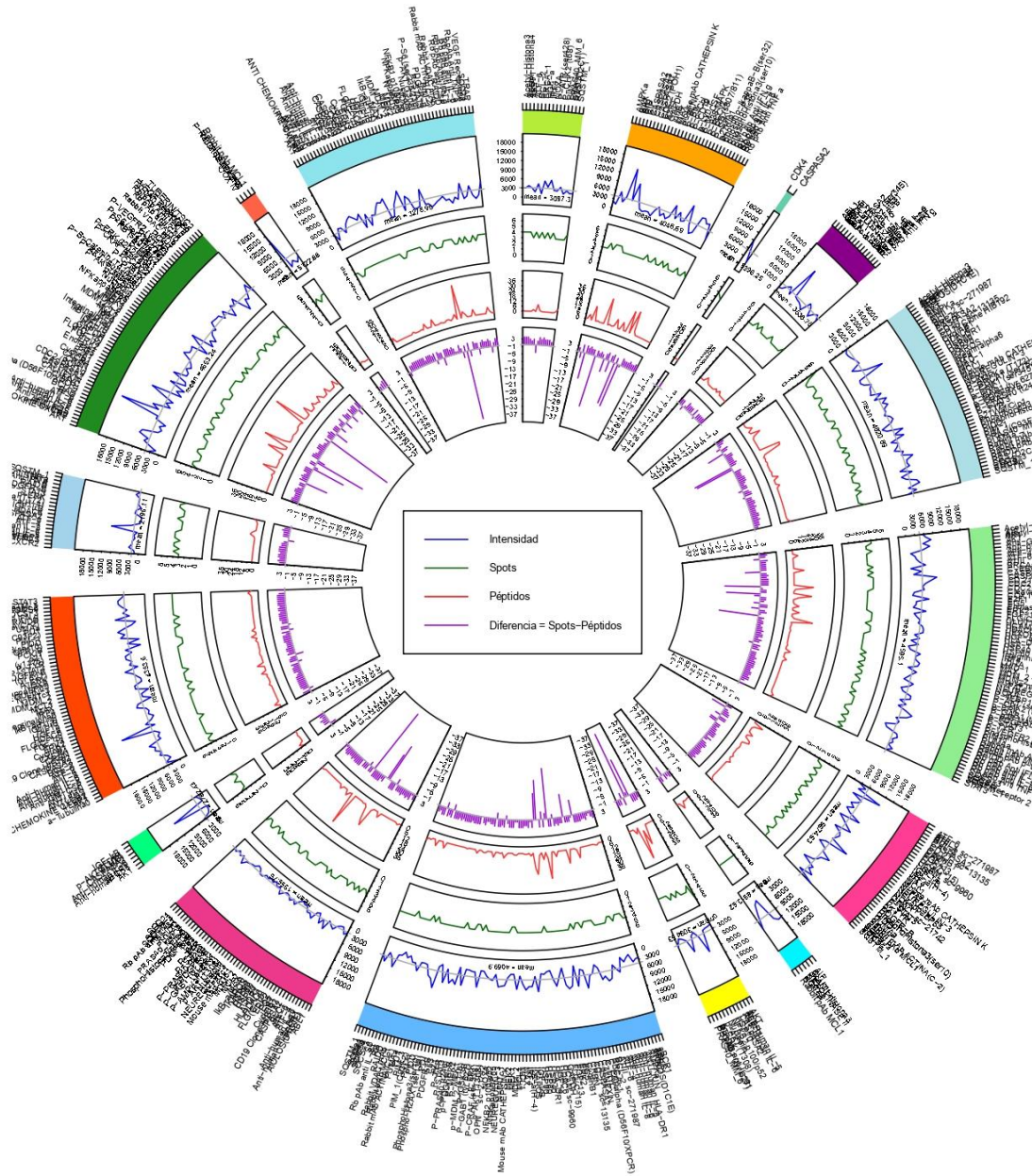
Gráfica 60. *CircoPlot* segundo conjunto de microarrays (número de referencia: 11).



Gráfica 61. *CircoPlot* segundo conjunto de microarrays (número de referencia: 22).



Gráfica 62. *CircoPlot* tercer conjunto de microarrays (número de referencia: 8, 12, 16, 18).



Gráfica 63. *PCA* segundo conjunto de microarrays (número de referencia: 11).

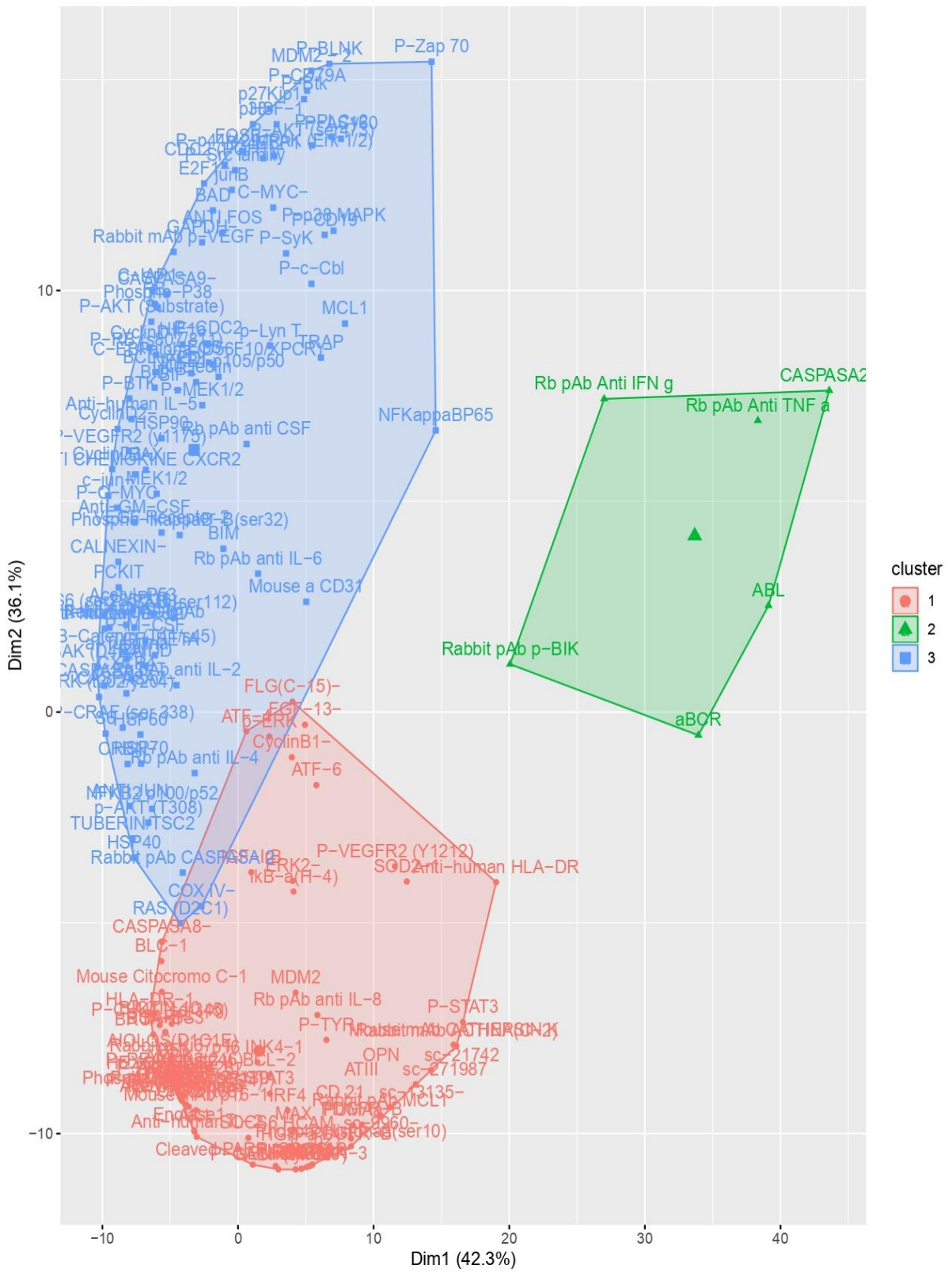


Tabla 75. Cruce de resultados con la base de datos de UniProt y NeXtProt para obtener el término propio de las proteínas. Resultado en STRING para obtener las redes de interacción: subarray 3, microarray 22.

<i>Query Terms</i>			
<i>4EBP1</i>	<i>EBP</i>	<i>FOSB</i>	<i>MP2K2</i>
<i>TUBA1A</i>	<i>JUN</i>	<i>G3P</i>	<i>MDM2</i>
<i>ABL1</i>	<i>MYC</i>	<i>CD44</i>	<i>MP2K1</i>
<i>CST3</i>	<i>CALX</i>	<i>HDAC6</i>	<i>KSYK</i>
<i>CST4</i>	<i>CASP2</i>	<i>HK2</i>	<i>TYR</i>
<i>TP53</i>	<i>CASP3</i>	<i>HGFA</i>	<i>TSC2</i>
<i>AIF1</i>	<i>CASP7</i>	<i>HIF1A</i>	<i>VEGFA</i>
<i>AKT</i>	<i>CASP9</i>	<i>HLA-DRB1</i>	<i>LYN</i>
<i>CXCR2</i>	<i>IL21R</i>	<i>HSF1</i>	<i>CSF1R</i>
<i>FOS</i>	<i>CDK1</i>	<i>DNJB1</i>	<i>SRC</i>
<i>CSF2</i>	<i>CDC25A</i>	<i>IGF1R</i>	<i>STAT3</i>
<i>IL2</i>	<i>PARP1</i>	<i>NFKBIA</i>	<i>STAT3</i>
<i>IL5</i>	<i>COX41</i>	<i>IRF4</i>	<i>TGFBRI</i>
<i>IL6</i>	<i>CCNB1</i>	<i>JUNB</i>	<i>MK01</i>
<i>IL8</i>	<i>CCND2</i>	<i>MAX</i>	<i>GAB1</i>
<i>ATF4</i>	<i>E2F1</i>	<i>MCL1</i>	<i>RB1</i>
<i>ATF6</i>	<i>EG5</i>	<i>MCL1</i>	<i>RS6</i>
<i>ANT3</i>	<i>ENOA</i>	<i>MDM2</i>	<i>SODM</i>
<i>BAD</i>	<i>MK01</i>	<i>MDM2</i>	<i>SQSTM</i>
<i>BAK</i>	<i>FGF13</i>	<i>CYC</i>	<i>CDC2</i>
<i>BCL2</i>	<i>FGFR1</i>	<i>CTSK</i>	<i>CHEK2</i>
<i>CFLAR</i>	<i>KDR</i>	<i>NFATC1</i>	<i>PDGFRB</i>
<i>BCL2L11</i>	<i>ZAP70</i>	<i>NRG2</i>	<i>PLCG2</i>
<i>GRP78</i>	<i>CDKN1A</i>	<i>TF65</i>	<i>SOCS3</i>
<i>PIM3</i>	<i>CDKN1A</i>	<i>PMAIP1</i>	<i>SOCS6</i>
<i>SPI1</i>	<i>CDN1B</i>	<i>OSTP</i>	<i>CD19</i>
<i>SLC25A28</i>	<i>MAPK11</i>	<i>4EBP1</i>	<i>CD79A</i>
<i>ACTG2</i>	<i>KIT</i>	<i>AKT1</i>	<i>MEP50</i>
<i>MCL1</i>	<i>PDGFRB</i>	<i>AKT1</i>	<i>CDK20</i>
<i>BIK</i>	<i>PDIA1</i>	<i>AKT1</i>	<i>TNF</i>
<i>CRADD</i>	<i>H2AFX</i>	<i>TBC1D4</i>	<i>RS6</i>
<i>RB1</i>	<i>CHUK</i>	<i>ATR</i>	<i>MYC</i>
<i>CSF1</i>	<i>MAPK11</i>	<i>BLNK</i>	<i>MAPK11</i>
<i>IFNG</i>	<i>HDAC3</i>	<i>BRCA1</i>	<i>IL6</i>
<i>IL2</i>	<i>PIDD1</i>	<i>BTK</i>	<i>CBLC</i>
<i>IL4</i>	<i>PIM1</i>		

Tabla 76. Resultado en STRING, Publicaciones de referencia que defienden la interacción entre *AKT1* y *TP53*, siendo su FDR constante para todos : subarray 3, microarray 22.

Term description	Background gene count	FDR	Proteins
(2008) Akt promotes cisplatin resistance in human ovarian cancer cells through inhibition of p53 phosphorylation and nuclear function.	2	0.0075	AKT1,TP53
(2008) Modulation of oncogenic phenotype in human glioma cells by cytomegalovirus IE1-mediated mitogenicity.	2	0.0075	AKT1,TP53
(2008) Yes-associated protein (YAP) functions as a tumor suppressor in breast.	2	0.0075	AKT1,TP53
(2008) From oncogene to network addiction: the new frontier of cancer genomics and therapeutics.	2	0.0075	AKT1,TP53
(2008) Studies of betulinic acid on cell cycle and related protein expressions on mice of bearing H22 tumor cells	2	0.0075	AKT1,TP53
(2009) Mechanisms of prostate cancer cell survival after inhibition of AR expression.	2	0.0075	AKT1,TP53
(2009) Radiation-induced salivary gland dysfunction results from p53-dependent apoptosis.	2	0.0075	AKT1,TP53
(2009) Differential enhancement of the anti-cancer effect of doxorubicin by Akt inhibitors on human breast cancer cells with differing genetic backgrounds.	2	0.0075	AKT1,TP53
(2009) Reduced tumorigenesis in p53 knockout mice exposed in utero to low-dose vitamin E.	2	0.0075	AKT1,TP53
(2009) Parameters of protection against ultraviolet radiation-induced skin cell damage.	2	0.0075	AKT1,TP53
(2009) The antitumor properties of a nontoxic, nitric oxide-modified version of saquinavir are independent of Akt.	2	0.0075	AKT1,TP53
(2009) Intrauterine growth restriction, human placental development and trophoblast cell death.	2	0.0075	AKT1,TP53
(2009) Arsenic trioxide induces apoptosis and G2M phase arrest by inducing Cbl to inhibit PI3K/Akt signaling and thereby regulate p53 activation.	2	0.0075	AKT1,TP53
(2009) Potential mechanisms involved in the prevention of neurodegenerative diseases by lithium.	2	0.0075	AKT1,TP53
(2010) Rac1 targeting suppresses p53 deficiency-mediated lymphomagenesis.	2	0.0075	AKT1,TP53
(2010) Postconditioning with sevoflurane protects against focal cerebral ischemia and reperfusion injury via PI3K/Akt pathway.	2	0.0075	AKT1,TP53
(2011) RNA interference targeting mutant p53 inhibits growth and induces apoptosis in DU145 human prostate cancer cells.	2	0.0075	AKT1,TP53
(2011) Combined activity of oridonin and wogonin in advanced-stage ovarian cancer cells: sensitivity of ovarian cancer cells to phyto-active chemicals.	2	0.0075	AKT1,TP53
(2011) Polygonatum cyrtoneura lectin, a potential antineoplastic drug targeting programmed cell death pathways.	2	0.0075	AKT1,TP53
(2011) Pathological signaling via platelet-derived growth factor receptor [alpha] involves chronic activation of Akt and suppression of p53.	2	0.0075	AKT1,TP53
(2011) Induction of pluripotency in primordial germ cells.	2	0.0075	AKT1,TP53
(2011) Akt, FoxO and regulation of apoptosis.	2	0.0075	AKT1,TP53
(2011) Expression of PDGFRA1fa is a determinant of the PVR potential of ARPE19 cells.	2	0.0075	AKT1,TP53
(2011) Interference with p53 functions in human viral infections, a target for novel antiviral strategies?	2	0.0075	AKT1,TP53
(2011) microRNA-210 is upregulated in hypoxic cardiomyocytes through Akt- and p53-dependent pathways and exerts cytoprotective effects.	2	0.0075	AKT1,TP53
(2012) Systems kinomics demonstrates Congo Basin monkeypox virus infection selectively modulates host cell signaling responses as compared to West African monkeypox virus.	2	0.0075	AKT1,TP53
(2012) In vitro malignant transformation of human bronchial epithelial cells induced by benzo(a)pyrene.	2	0.0075	AKT1,TP53
(2012) On metabolic shift to lactate consumption in fed-batch culture of mammalian cells.	2	0.0075	AKT1,TP53
(2012) MicroRNA-199a-5p is associated with hypoxia-inducible factor-1Alfa expression in lungs from patients with COPD.	2	0.0075	AKT1,TP53
(2011) Growth inhibition and enhanced chemosensitivity induced by down-regulation of Aurora-A in human renal cell carcinoma Caki-2 cells using short hairpin RNA.	2	0.0075	AKT1,TP53
(2012) A critical role for TORC1 in cellular senescence.	2	0.0075	AKT1,TP53
(2012) Loss of Rb cooperates with Ras to drive oncogenic growth in mammalian cells.	2	0.0075	AKT1,TP53
(2013) Anti-tumor and anti-viral activities of Galanthus nivalis agglutinin (GNA)-related lectins.	2	0.0075	AKT1,TP53
(2012) Antitumor actions of baicalin and wogonin in HT-29 human colorectal cancer cells.	2	0.0075	AKT1,TP53
(2013) Tyrosine phosphatase inhibitors combined with retinoic acid can enhance differentiation of neuroblastoma cells and trigger ERK- and AKT-dependent, p53-independent senescence.	2	0.0075	AKT1,TP53
(2012) Effects of ionizing radiation in combination with Eriofosine on T98G glioblastoma xenograft tumours: a study in NMRI nu/nu mice.	2	0.0075	AKT1,TP53
(2013) Glioblastoma tumor initiating cells: therapeutic strategies targeting apoptosis and microRNA pathways.	2	0.0075	AKT1,TP53
(2013) Cyanidin reverses cisplatin-induced apoptosis in HK-2 proximal tubular cells through inhibition of ROS-mediated DNA damage and modulation of the ERK and AKT pathways.	2	0.0075	AKT1,TP53
(2013) The effect of zinc and the role of p53 in copper-induced cellular stress responses.	2	0.0075	AKT1,TP53
(2013) Glycyrrhiza polysaccharide induces apoptosis and inhibits proliferation of human hepatocellular carcinoma cells by blocking PI3K/AKT signal pathway.	2	0.0075	AKT1,TP53
(2013) Destruxins: fungal-derived cyclohexadepsipeptides with multifaceted anticancer and antiangiogenic activities.	2	0.0075	AKT1,TP53
(2012) Effect of combination of rapamycin and cisplatin on human cervical carcinoma Hela cells.	2	0.0075	AKT1,TP53
(2013) Selenocystine potentiates cancer cell apoptosis induced by 5-fluorouracil by triggering reactive oxygen species-mediated DNA damage and inactivation of the ERK pathway.	2	0.0075	AKT1,TP53
(2013) The tumor suppressor p53 fine-tunes reactive oxygen species levels and neurogenesis via PI3 kinase signaling.	2	0.0075	AKT1,TP53
(2013) Root bark extracts of Juncus effusus and Paeonia suffruticosa protect salivary gland acinar cells from apoptotic cell death induced by cis-platinum (II) diammine dichloride.	2	0.0075	AKT1,TP53
(2013) Anticarcinogenic effects of the ethanolic extract of Salix aegyptiaca in colon cancer cells: involvement of Akt/PKB and MAPK pathways.	2	0.0075	AKT1,TP53
(2015) The PI3K/Akt/mTOR axis in head and neck cancer: functions, aberrations, cross-talk, and therapies.	2	0.0075	AKT1,TP53
(2013) Molecular and metabolic consequences following E6 transfection in an isogenic ovarian cell line (A2780) pair.	2	0.0075	AKT1,TP53
(2014) Sulforaphane-induced apoptosis involves p53 and p38 in melanoma cells.	2	0.0075	AKT1,TP53
(2014) Cross Talk between Cellular Redox Status, Metabolism, and p53 in Neural Stem Cell Biology.	2	0.0075	AKT1,TP53
(2014) Synergistic induction of apoptosis by methylseleninic acid and cisplatin, the role of ROS-ERK/AKT-p53 pathway.	2	0.0075	AKT1,TP53
(2014) Aberrant upregulation of miR-21 in placental tissues of macrosomia.	2	0.0075	AKT1,TP53
(2014) Bone marrow stromal cell-derived exosomes as communicators in drug resistance in multiple myeloma cells.	2	0.0075	AKT1,TP53
(2014) Signalling of Apoptin.	2	0.0075	AKT1,TP53
(2014) Gracilaria lemaneiformis polysaccharide as integrin-targeting surface decorator of selenium nanoparticles to achieve enhanced anticancer efficacy.	2	0.0075	AKT1,TP53
(2015) Diosgenin induces G2M cell cycle arrest and apoptosis in human hepatocellular carcinoma cells.	2	0.0075	AKT1,TP53
(2014) Pancreatic neuroendocrine tumors: pathologic and molecular characteristics.	2	0.0075	AKT1,TP53
(2015) Oxovanadium-based inhibitors can drive redox-sensitive cytotoxicity in neuroblastoma cells and synergise strongly with buthionine sulfoximine.	2	0.0075	AKT1,TP53
(2015) Andrographolide and analogues in cancer prevention.	2	0.0075	AKT1,TP53
(2015) Expression profile analysis of microRNAs in prostate cancer by next-generation sequencing.	2	0.0075	AKT1,TP53
(2015) Dual-function nanosystem for synergetic cancer chemo-radiotherapy through ROS-mediated signaling pathways.	2	0.0075	AKT1,TP53
(2015) Human papillomavirus 16 infection predicts poor outcome in patients with esophageal squamous cell carcinoma.	2	0.0075	AKT1,TP53
(2015) Survival signalling in the preimplantation embryo.	2	0.0075	AKT1,TP53
(2015) Tumor suppressor p53 stole the AKT in hypoxia.	2	0.0075	AKT1,TP53
(2015) The collective nuclear migration of p53 and phosphorylated S473 of Akt during ellipticine-mediated apoptosis in human lung epithelial cancer cells.	2	0.0075	AKT1,TP53

(2015) Multifaceted programmed cell death in the mammalian fetal ovary.	2	0.0075	AKT1,TP53
(2015) Erratum to: The collective nuclear migration of p53 and phosphorylated S473 of Akt during ellipticine-mediated apoptosis in human lung epithelial cancer cells.	2	0.0075	AKT1,TP53
(2016) TSH overcomes Braf(V600E)-induced senescence to promote tumor progression via downregulation of p53 expression in papillary thyroid cancer.	2	0.0075	AKT1,TP53
(2016) Aquation Is a Crucial Activation Step for Anticancer Action of Ruthenium(II) Polypyridyl Complexes to Trigger Cancer Cell Apoptosis.	2	0.0075	AKT1,TP53
(2015) ChAkt1 involvement in orchestrating the immune and heat shock responses in <i>Crassostrea hongkongensis</i> : Molecular cloning and functional characterization.	2	0.0075	AKT1,TP53
(2017) Mevalonate Pathway and Human Cancers.	2	0.0075	AKT1,TP53
(2016) Dual-Functional Nanographene Oxide as Cancer-Targeted Drug-Delivery System to Selectively Induce Cancer-Cell Apoptosis.	2	0.0075	AKT1,TP53
(2016) Seborrheic Keratoses: The Rodney Dangerfield of Skin lesions, and Why They Should Get Our Respect.	2	0.0075	AKT1,TP53
(2016) Serum starvation and thymidine double blocking achieved efficient cell cycle synchronization and altered the expression of p27, p53, bcl-2 in canine breast cancer cells.	2	0.0075	AKT1,TP53
(2016) Autophagy regulation and its role in gastric cancer and colorectal cancer.	2	0.0075	AKT1,TP53
(2016) PI3KAKTmTOR-mediated autophagy in the development of autism spectrum disorder.	2	0.0075	AKT1,TP53
(2016) Synergistic Anti-glioma Effects in Vitro and in Vivo of Eneidyne Antibiotic Neocarzinostatin and Paclitaxel via Enhanced Growth Delay and Apoptosis-Induction.	2	0.0075	AKT1,TP53
(2016) Inhibition of tachykinin NK1 receptor using aprepitant induces apoptotic cell death and G1 arrest through Aktp53 axis in pre-B acute lymphoblastic leukemia cells.	2	0.0075	AKT1,TP53
(2016) Highly stable selenadiazole derivatives induce bladder cancer cell apoptosis and inhibit cell migration and invasion through the activation of ROS-mediated signaling pathways.	2	0.0075	AKT1,TP53
(2016) Overexpression of alysia Ras homolog 1 (ARHI) increases apoptosis in colon cancer SW480 cells	2	0.0075	AKT1,TP53
(2016) White sesame seed water-soluble fraction enhances human neuroblast cell viability via an anti-apoptotic mechanism.	2	0.0075	AKT1,TP53
(2017) NSCA-1-a novel N-substituted coumalamide derivative-increases Adriamycin sensitivity in HepG2adriamycin cells through modulating AktGSK-3Beta signaling and p53-dependant apoptotic pathway.	2	0.0075	AKT1,TP53
(2017) Molecular interplay between mutant p53 proteins and autophagy in cancer cells.	2	0.0075	AKT1,TP53
(2017) SeRu-Decorated Porous Metal-Organic Framework Nanoparticles for The Delivery of Pooled siRNAs to Reversing Multidrug Resistance in Taxol-Resistant Breast Cancer Cells.	2	0.0075	AKT1,TP53
(2017) Combinatorial effect of curcumin with docetaxel modulates apoptotic and cell survival molecules in prostate cancer.	2	0.0075	AKT1,TP53
(2017) Beta-Caryophyllene Pretreatment Alleviates Focal Cerebral Ischemia-Reperfusion Injury by Activating PI3KAkt Signaling Pathway.	2	0.0075	AKT1,TP53
(2017) Anti-tumor activity of wogonin, an extract from <i>Scutellaria baicalensis</i> , through regulating different signaling pathways.	2	0.0075	AKT1,TP53
(2017) Critical role of HMGA proteins in cancer cell chemoresistance.	2	0.0075	AKT1,TP53
(2017) p53microRNA-374bAKT1 regulates colorectal cancer cell apoptosis in response to DNA damage.	2	0.0075	AKT1,TP53
(2017) Poorly Differentiated Thyroid Carcinoma: 10-Year Experience in a Southeast Asian Population.	2	0.0075	AKT1,TP53
(2017) Beta-2-himachalen-6-ol protects against skin cancer development in vitro and in vivo.	2	0.0075	AKT1,TP53
(2018) Curcumin regulates proliferation, autophagy, and apoptosis in gastric cancer cells by affecting PI3K and P53 signa.	2	0.0075	AKT1,TP53
(2017) The significance of miR-145 in the prediction of preeclampsia.	2	0.0075	AKT1,TP53
(2017) Curcumin Inhibits Proliferation and Epithelial-Mesenchymal Transition of Retinal Pigment Epithelial Cells Via Multiple Pathways.	2	0.0075	AKT1,TP53
(2017) The selected biomarker analysis in five types of uterine smooth muscle tumors.	2	0.0075	AKT1,TP53
(2018) Gene expression in retinal ischemic post-conditioning.	2	0.0075	AKT1,TP53
(2018) Paris Polyphylla-Derived Saponins Inhibit Growth of Bladder Cancer Cells by Inducing Mutant P53 Degradation While Up-Regulating CDKN1A Expression.	2	0.0075	AKT1,TP53
(2018) Lower endogenous p53 levels and degradation of AKT protein contribute to potent suppression of the new antibiotic Xiakemycin A on tumor cells.	2	0.0075	AKT1,TP53
(2018) miRNA-489 as a biomarker in diagnosis and treatment of cervical cancer.	2	0.0075	AKT1,TP53
(2018) p53 and metabolism: from mechanism to therapeutics.	2	0.0075	AKT1,TP53

Tabla 77. Resultado en STRING, *Reactome Pathways*, vías de señalización significativas entre AKT1 y TP53: subarray 3, microarray 22.

Term description	Observed gene count	Background gene count	FDR	Proteins
Regulation of TP53 Activity through Association with Co-factors	2	14	9,34E-05	AKT1,TP53
Activation of BH3-only proteins	2	29	0,00018	AKT1,TP53
Regulation of TP53 Degradation	2	35	0,00018	AKT1,TP53
Regulation of TP53 Activity through Acetylation	2	30	0,00018	AKT1,TP53
TP53 Regulates Metabolic Genes	2	83	0,0004	AKT1,TP53
Interleukin-4 and Interleukin-13 signaling	2	106	0,00056	AKT1,TP53
PTEN Regulation	2	135	0,00081	AKT1,TP53
Signaling by NOTCH	2	197	0,0012	AKT1,TP53
Cell Cycle, Mitotic	2	483	0,0051	AKT1,TP53
Hemostasis	2	601	0,0071	AKT1,TP53

Tabla 78. Resultado en STRING, Función molecular, *GO_Ontology*: subarray 3, microarray 22.

<i>Term ID</i>	<i>Term description</i>	<i>Observed gene count</i>	<i>Background gene count</i>	<i>FDR</i>
GO:0005515	<i>protein binding</i>	101	6605	4,86E-27
GO:0019899	<i>enzyme binding</i>	60	2197	4,26E-23
GO:0016773	<i>phosphotransferase activity, alcohol group as acceptor</i>	34	767	1,60E-17
GO:0004672	<i>protein kinase activity</i>	31	635	5,01E-17
GO:0016301	<i>kinase activity</i>	34	835	1,20E-16
GO:0019901	<i>protein kinase binding</i>	29	599	7,08E-16
GO:0019900	<i>kinase binding</i>	30	678	1,59E-15
GO:0140096	<i>catalytic activity, acting on a protein</i>	49	2176	6,21E-15
GO:0005102	<i>signaling receptor binding</i>	39	1513	3,28E-13
GO:0005488	<i>binding</i>	110	11878	9,55E-13
GO:0004713	<i>protein tyrosine kinase activity</i>	16	180	2,81E-12
GO:0004693	<i>protein dimerization activity</i>	33	1301	8,54E-11
GO:0042802	<i>identical protein binding</i>	38	1754	1,16E-10
GO:0044389	<i>ubiquitin-like protein ligase binding</i>	18	325	1,16E-10
GO:0008134	<i>transcription factor binding</i>	23	610	1,51E-10
GO:0031625	<i>ubiquitin protein ligase binding</i>	17	311	4,93E-10
GO:0098772	<i>molecular function regulator</i>	37	1793	7,87E-10
GO:0016740	<i>transferase activity</i>	41	2250	1,99E-09
GO:0019904	<i>protein domain specific binding</i>	23	706	2,06E-09
GO:0004692	<i>protein heterodimerization activity</i>	20	519	2,34E-09
GO:0051219	<i>phosphoprotein binding</i>	10	80	4,47E-09
GO:0044877	<i>protein-containing complex binding</i>	26	968	5,22E-09
GO:0005126	<i>cytokine receptor binding</i>	15	272	5,31E-09
GO:0004674	<i>protein serine/threonine kinase activity</i>	18	444	8,63E-09
GO:0000987	<i>proximal promoter sequence-specific DNA binding</i>	18	475	2,34E-08
GO:0044212	<i>transcription regulatory region DNA binding</i>	23	829	3,18E-08
GO:0000976	<i>transcription regulatory region sequence-specific DNA</i>	21	710	5,64E-08
GO:0005524	<i>ATP binding</i>	30	1462	6,71E-08
GO:0031072	<i>heat shock protein binding</i>	10	112	6,71E-08
GO:0001784	<i>phosphotyrosine residue binding</i>	7	37	1,35E-07
GO:0070851	<i>growth factor receptor binding</i>	10	131	2,27E-07
GO:0097367	<i>carbohydrate derivative binding</i>	36	2163	2,46E-07
GO:0002020	<i>protease binding</i>	10	135	2,82E-07
GO:0000977	<i>RNA polymerase II regulatory region sequence-specific</i>	19	647	2,90E-07
GO:0097200	<i>cysteine-type endopeptidase activity involved in execut</i>	5	10	2,90E-07
GO:0000978	<i>RNA polymerase II proximal promoter sequence-specifi</i>	16	457	3,83E-07
GO:0008144	<i>drug binding</i>	31	1710	4,20E-07
GO:0001228	<i>DNA-binding transcription activator activity, RNA poly</i>	15	408	5,28E-07
GO:0030234	<i>enzyme regulator activity</i>	23	1016	7,23E-07
GO:0000166	<i>nucleotide binding</i>	34	2097	1,00E-06
GO:0001629	<i>RNA polymerase II-specific DNA-binding transcription,</i>	12	257	1,00E-06
GO:0003824	<i>catalytic activity</i>	62	5592	1,01E-06
GO:0035639	<i>purine ribonucleoside triphosphate binding</i>	31	1794	1,02E-06
GO:0043565	<i>sequence-specific DNA binding</i>	23	1047	1,09E-06
GO:0019207	<i>kinase regulator activity</i>	11	213	1,21E-06
GO:0019902	<i>phosphatase binding</i>	10	168	1,31E-06
GO:0005125	<i>cytokine activity</i>	11	216	1,34E-06
GO:0140297	<i>DNA-binding transcription factor binding</i>	13	327	1,46E-06
GO:0042803	<i>protein homodimerization activity</i>	20	830	1,80E-06
GO:0032555	<i>purine ribonucleotide binding</i>	31	1853	1,81E-06
GO:1901363	<i>heterocyclic compound binding</i>	59	5305	2,10E-06
GO:0097159	<i>organic cyclic compound binding</i>	59	5382	3,50E-06
GO:0019887	<i>protein kinase regulator activity</i>	10	193	3,83E-06
GO:0008047	<i>enzyme activator activity</i>	15	510	5,80E-06
GO:0019199	<i>transmembrane receptor protein kinase activity</i>	7	78	6,87E-06
GO:0019209	<i>kinase activator activity</i>	7	82	9,27E-06
GO:0001085	<i>RNA polymerase II transcription factor binding</i>	8	121	9,49E-06
GO:0004715	<i>non-membrane spanning protein tyrosine kinase activit</i>	6	51	9,49E-06
GO:0036094	<i>small molecule binding</i>	35	2460	9,49E-06
GO:0004693	<i>cyclin-dependent protein serine/threonine kinase activi</i>	5	33	2,42E-05
GO:0004714	<i>transmembrane receptor protein tyrosine kinase activit</i>	6	61	2,42E-05
GO:0043168	<i>anion binding</i>	36	2696	2,59E-05
GO:0000980	<i>RNA polymerase II distal enhancer sequence-specific I</i>	6	67	3,82E-05
GO:0051879	<i>Hsp90 protein binding</i>	5	37	3,82E-05
GO:0046934	<i>phosphatidylinositol-4,5-bisphosphate 3-kinase activity</i>	6	68	4,05E-05
GO:0008083	<i>growth factor activity</i>	8	160	5,87E-05
GO:0030295	<i>protein kinase activator activity</i>	6	77	7,60E-05
GO:0019903	<i>protein phosphatase binding</i>	7	123	9,50E-05
GO:0004197	<i>cysteine-type endopeptidase activity</i>	6	85	0,00012
GO:0048018	<i>receptor ligand activity</i>	12	458	0,00019
GO:0097110	<i>scaffold protein binding</i>	5	57	0,00023
GO:0051087	<i>chaperone binding</i>	6	100	0,00028

GO:0016538	<i>cyclin-dependent protein serine/threonine kinase regul</i>	4	31	0,00035
GO:0051400	<i>BH domain binding</i>	3	10	0,00035
GO:0070513	<i>death domain binding</i>	3	10	0,00035
GO:0030332	<i>cyclin binding</i>	4	32	0,00037
GO:0042169	<i>SH2 domain binding</i>	4	33	0,00041
GO:0097718	<i>disordered domain specific binding</i>	4	33	0,00041
GO:0042826	<i>histone deacetylase binding</i>	6	110	0,00042
GO:0033613	<i>activating transcription factor binding</i>	5	69	0,00048
GO:0004861	<i>cyclin-dependent protein serine/threonine kinase inhib</i>	3	12	0,00051
GO:0004708	<i>MAP kinase kinase activity</i>	3	15	0,00089
GO:0005161	<i>platelet-derived growth factor receptor binding</i>	3	15	0,00089
GO:0004712	<i>protein serine/threonine/tyrosine kinase activity</i>	4	42	0,00091
GO:0019912	<i>cyclin-dependent protein kinase activating kinase activ</i>	2	2	0,0011
GO:0032813	<i>tumor necrosis factor receptor superfamily binding</i>	4	46	0,0012
GO:0005123	<i>death receptor binding</i>	3	18	0,0014
GO:0035258	<i>steroid hormone receptor binding</i>	5	90	0,0014
GO:0005080	<i>protein kinase C binding</i>	4	49	0,0015
GO:0003677	<i>DNA binding</i>	29	2457	0,0018
GO:0004860	<i>protein kinase inhibitor activity</i>	5	95	0,0018
GO:0035257	<i>nuclear hormone receptor binding</i>	6	149	0,0018
GO:0061134	<i>peptidase regulator activity</i>	7	211	0,0018
GO:0070412	<i>R-SMAD binding</i>	3	23	0,0024
GO:0047485	<i>protein N-terminus binding</i>	5	109	0,0031
GO:0004857	<i>enzyme inhibitor activity</i>	9	388	0,0033
GO:0016922	<i>nuclear receptor binding</i>	5	111	0,0033
GO:0030971	<i>receptor tyrosine kinase binding</i>	4	62	0,0033
GO:0038085	<i>vascular endothelial growth factor binding</i>	2	5	0,0034
GO:0051434	<i>BH3 domain binding</i>	2	5	0,0034
GO:0046875	<i>ephrin receptor binding</i>	3	28	0,0038
GO:0051059	<i>NF-kappaB binding</i>	3	29	0,0042
GO:0051721	<i>protein phosphatase 2A binding</i>	3	29	0,0042
GO:0005178	<i>integrin binding</i>	5	122	0,0047
GO:0019838	<i>growth factor binding</i>	5	126	0,0053
GO:0043539	<i>protein serine/threonine kinase activator activity</i>	3	32	0,0053
GO:0046332	<i>SMAD binding</i>	4	73	0,0053
GO:0008353	<i>RNA polymerase II CTD heptapeptide repeat kinase ac</i>	2	8	0,0066
GO:0043208	<i>glycosphingolipid binding</i>	2	8	0,0066
GO:0140110	<i>transcription regulator activity</i>	24	2069	0,0067
GO:0016504	<i>peptidase activator activity</i>	3	37	0,0073
GO:0001102	<i>RNA polymerase II activating transcription factor bindi</i>	3	39	0,0084
GO:0030544	<i>Hsp70 protein binding</i>	3	39	0,0084
GO:0032041	<i>NAD-dependent histone deacetylase activity (H3-K14 s</i>	2	11	0,0107
GO:0070888	<i>E-box binding</i>	3	43	0,0107
GO:0003713	<i>transcription coactivator activity</i>	7	307	0,0119
GO:0001227	<i>DNA-binding transcription repressor activity, RNA pol</i>	6	229	0,012
GO:0051787	<i>misfolded protein binding</i>	2	12	0,012
GO:0019955	<i>cytokine binding</i>	4	99	0,0136
GO:0004707	<i>MAP kinase activity</i>	2	14	0,0154
GO:0005088	<i>Ras guanyl-nucleotide exchange factor activity</i>	6	243	0,0154
GO:0035497	<i>cAMP response element binding</i>	2	14	0,0154
GO:0038191	<i>neuropilin binding</i>	2	14	0,0154
GO:0030145	<i>manganese ion binding</i>	3	53	0,0174
GO:0003700	<i>DNA-binding transcription factor activity</i>	20	1749	0,0179
GO:0000981	<i>DNA-binding transcription factor activity, RNA polyme</i>	19	1631	0,0183
GO:0008656	<i>cysteine-type endopeptidase activator activity involved</i>	2	16	0,0186
GO:0035173	<i>histone kinase activity</i>	2	16	0,0186
GO:0015631	<i>tubulin binding</i>	7	344	0,0197
GO:0005070	<i>SH3/SH2 adaptor activity</i>	3	57	0,02
GO:0003712	<i>transcription coregulator activity</i>	9	534	0,0202
GO:0070491	<i>repressing transcription factor binding</i>	3	60	0,0223
GO:0044325	<i>ion channel binding</i>	4	120	0,0232
GO:0003684	<i>damaged DNA binding</i>	3	64	0,026
GO:0017124	<i>SH3 domain binding</i>	4	125	0,0261
GO:0043167	<i>ion binding</i>	50	6066	0,0286
GO:0060089	<i>molecular transducer activity</i>	17	1483	0,0302
GO:0005158	<i>insulin receptor binding</i>	2	23	0,0319
GO:0070840	<i>dynein complex binding</i>	2	23	0,0319
GO:0002039	<i>p53 binding</i>	3	73	0,0352
GO:0004175	<i>endopeptidase activity</i>	7	399	0,0381
GO:0001968	<i>fibronectin binding</i>	2	26	0,0388
GO:0071889	<i>14-3-3 protein binding</i>	2	26	0,0388
GO:0003682	<i>chromatin binding</i>	8	501	0,039
GO:0035035	<i>histone acetyltransferase binding</i>	2	27	0,0406
GO:0051020	<i>GTPase binding</i>	9	614	0,0422
GO:0035255	<i>ionotropic glutamate receptor binding</i>	2	28	0,0429
GO:0051019	<i>mitogen-activated protein kinase binding</i>	2	28	0,0429
GO:0043548	<i>phosphatidylinositol 3-kinase binding</i>	2	29	0,0449
GO:0031267	<i>small GTPase binding</i>	8	525	0,048

Tabla 79. Resultado en STRING, Términos clave encontrados en UniProt, *UniProt_keywords*: subarray 3, microarray 22.

<i>Term description</i>	<i>Observed gene count</i>	<i>Background gene count</i>	<i>FDR</i>	<i>Matching proteins in your network (labels)</i>
Ubl conjugation	54	2380	1,53E-16	ABLI, AKT1, ATF4, ATF6, BCL2, BCL2L1, BRCA1, CANX, CBLC, CCNB1, CCND2, CDC25A, CDK1, CDKN1A, CDKN1B, CHEK2, CSF1R, EIF4EBP1, ENO1, FGF1R, FOS, GAPDH, H2AFX, HDAC3, HDAC6, HIF1A, HSF1, HSPA5, IGF1R, JUN, JUNB, KDR, KIF11, KIT, LYN, MAPK1, MCL1, MDM2, MYC, NFKBIA, PARP1, PDGFRB, PIM1, PIM3, RELA, RPS6, SOD2, SQSTM1, SRC, SYK, TGFBR1, TP53, TSC2, ZAP70
Apoptosis	28	530	4,07E-16	ABLI, AKT1, BAD, BAK1, BCL2, BCL2L1, BIK, BTK, CASP2, CASP3, CASP7, CASP9, CDK1, CFLAR, CHEK2, CRADD, CYCS, E2F1, GAPDH, MAPK1, MCL1, PIDD1, PIM1, PIM3, PMAIP1, SQSTM1, TGFBR1, TP53
Phosphoprotein	96	8066	4,07E-16	ABLI, AIF1, AKT1, ATF4, ATF6, ATR, BAD, BCL2, BCL2L1, BLNK, BRCA1, BTK, CANX, CASP2, CASP3, CASP7, CASP9, CBLC, CCNB1, CCND2, CD19, CD44, CD79A, CDC25A, CDK1, CDKN1A, CDKN1B, CHEK2, CHUK, COX411, CSF1, CSF1R, CST3, CST4, CXCR2, CYCS, DNAJB1, E2F1, EIF4EBP1, ENO1, FGF13, FGF1R, FOS, GAB1, GAPDH, H2AFX, HDAC3, HDAC6, HIF1A, HSF1, HSPA5, IGF1R, IL6, IRF4, JUN, JUNB, KDR, KIF11, KIT, LYN, MAP2K1, MAP2K2, MAPK1, MAPK11, MAX, MCL1, MDM2, MYC, NFATC1, NFKBIA, P4HB, PARP1, PDGFRB, PIDD1, PIM1, PIM3, PLCG2, RB1, RELA, RPS6, SERPINC1, SOCS3, SPI1, SPP1, SQSTM1, SRC, STAT3, SYK, TBC1D4, TGFBR1, TNF, TP53, TSC2, TUBA1A, WDR77, ZAP70
Kinase	26	631	1,09E-12	ABLI, AKT1, ATR, BTK, CDK1, CDK20, CHEK2, CHUK, CSF1R, FGF1R, HK2, IGF1R, KDR, KIT, LYN, MAP2K1, MAP2K2, MAPK1, MAPK11, PDGFRB, PIM1, PIM3, SRC, SYK, TGFBR1, ZAP70
Tyrosine-protein kinase	14	110	1,22E-12	ABLI, BTK, CSF1R, FGF1R, IGF1R, KDR, KIT, LYN, MAP2K1, MAP2K2, PDGFRB, SRC, SYK, ZAP70
Proto-oncogene	16	228	6,83E-11	ABLI, AKT1, BCL2, CSF1R, FOS, IL2, JUN, KIT, LYN, MDM2, MYC, PDGFRB, PIM1, PIM3, SPI1, SRC
SH2 domain	11	108	5,14E-09	ABLI, BLNK, BTK, LYN, PLCG2, SOCS3, SOCS6, SRC, STAT3, SYK, ZAP70
Acetylation	50	3335	6,49E-09	ABLI, ACTG2, AIF1, AKT1, BAD, BAK1, BRCA1, BTK, CANX, CASP2, CASP3, CASP7, CCNB1, CDK1, CDKN1A, CHUK, COX411, CYCS, E2F1, EBP, EIF4EBP1, ENO1, GAB1, GAPDH, H2AFX, HIF1A, HK2, HSF1, HSPA5, JUN, JUNB, KIF11, MAP2K1, MAP2K2, MAPK1, MAX, MYC, P4HB, PARP1, PIDD1, RB1, RELA, RPS6, SOD2, SQSTM1, STAT3, TBC1D4, TP53, TUBA1A, ZAP70
Disease	52	3799	5,47E-08	ABLI, ACTG2, AKT1, ATF6, ATR, BCL2, BRCA1, BTK, CCND2, CDKN1B, CHEK2, CRADD, CSF1R, CST3, CTSK, CYCS, EBP, FGF1R, FOS, GAB1, IGF1R, IL2, IL21R, JUN, KIF11, KIT, LYN, MAP2K1, MAP2K2, MAX, MDM2, MYC, NFKBIA, P4HB, PDGFRB, PIDD1, PIM1, PIM3, PLCG2, RB1, SERPINC1, SPI1, SQSTM1, SRC, STAT3, TBC1D4, TGFBR1, TP53, TSC2, TUBA1A, TYR, ZAP70
ATP-binding	29	1367	7,88E-08	ABLI, ACTG2, AKT1, ATR, BTK, CDK1, CDK20, CHEK2, CHUK, CSF1R, FGF1R, HK2, HSPA5, IGF1R, KDR, KIF11, KIT, LYN, MAP2K1, MAP2K2, MAPK1, MAPK11, PDGFRB, PIM1, PIM3, SRC, SYK, TGFBR1, ZAP70
Cell cycle	18	640	1,93E-06	BRCA1, CCNB1, CCND2, CDC25A, CDK1, CDK20, CDKN1A, CDKN1B, CHEK2, E2F1, H2AFX, KIF11, MAPK1, PIM1, PIM3, RB1, SRC, TP53
Transferase	31	1796	1,93E-06	ABLI, AKT1, ATR, BRCA1, BTK, CBLC, CDK1, CDK20, CHEK2, CHUK, CSF1R, FGF1R, GAPDH, HK2, IGF1R, KDR, KIT, LYN, MAP2K1, MAP2K2, MAPK1, MAPK11, MDM2, PARP1, PDGFRB, PIM1, PIM3, SRC, SYK, TGFBR1, ZAP70
Disease mutation	41	2951	3,20E-06	ABLI, ACTG2, AKT1, ATF6, ATR, BCL2, BRCA1, BTK, CCND2, CHEK2, CRADD, CSF1R, CST3, CTSK, CYCS, EBP, FGF1R, GAB1, IGF1R, IL21R, KIF11, KIT, MAP2K1, MAP2K2, MAX, NFKBIA, P4HB, PDGFRB, PIDD1, PLCG2, RB1, SERPINC1, SQSTM1, SRC, STAT3, TGFBR1, TP53, TSC2, TUBA1A, TYR, ZAP70
Nucleotide-binding	30	1758	3,52E-06	ABLI, ACTG2, AKT1, ATR, BTK, CDK1, CDK20, CHEK2, CHUK, CSF1R, FGF1R, HK2, HSPA5, IGF1R, KDR, KIF11, KIT, LYN, MAP2K1, MAP2K2, MAPK1, MAPK11, PDGFRB, PIM1, PIM3, SRC, SYK, TGFBR1, TUBA1A, ZAP70
Cytokine	10	185	4,76E-06	CSF1, CSF2, CXCL8, IFNG, IL2, IL4, IL5, IL6, SPP1, TNF
Cytoplasm	56	4972	6,07E-06	ABLI, ACTG2, AIF1, AKT1, ATF4, BAD, BLNK, BRCA1, BTK, CASP3, CASP7, CCNB1, CCND2, CDK1, CDK20, CDKN1A, CDKN1B, CHUK, CRADD, DNAJB1, ENO1, FGF13, FGF1R, FOS, GAPDH, HDAC3, HDAC6, HIF1A, HSF1, HSPA5, KDR, KIF11, KIT, LYN, MAP2K1, MAP2K2, MAPK1, MAPK11, MCL1, MDM2, NFATC1, NFKBIA, PIDD1, PIM1, PIM3, RELA, SQSTM1, SRC, STAT3, SYK, TBC1D4, TP53, TSC2, TUBA1A, WDR77, ZAP70
Isopeptide bond	29	1713	6,07E-06	ACTG2, AKT1, ATF4, ATF6, BRCA1, CDK1, EIF4EBP1, ENO1, FOS, GAPDH, H2AFX, HIF1A, HSF1, HSPA5, IGF1R, JUN, JUNB, KIF11, MCL1, MYC, NFKBIA, PARP1, RELA, RPS6, SQSTM1, TGFBR1, TP53, TUBA1A, ZAP70
Host-virus interaction	14	432	7,00E-06	CFLAR, H2AFX, KDR, LYN, MAPK1, MDM2, NFKBIA, RB1, RELA, SRC, STAT3, SYK, TP53, TSC2
Serine/threonine-protein kinase	13	387	1,17E-05	AKT1, ATR, CDK1, CDK20, CHEK2, CHUK, MAP2K1, MAP2K2, MAPK1, MAPK11, PIM1, PIM3, TGFBR1

Nucleus	56	5200	2,24E-05	ABL1, AKT1, ATF4, ATF6, ATR, BCL2, BRCA1, BTK, CCNB1, CCND2, CDK1, CDK20, CDKN1A, CDKN1B, CHEK2, CHUK, CRADD, DNAB1, E2F1, EBP, ENO1, FGF13, FGFR1, FOS, FOSB, GAPDH, H2AFX, HDAC3, HDAC6, HIF1A, HSF1, IRF4, JUN, JUNB, KDR, LYN, MAP2K1, MAPK1, MAPK11, MAX, MCL1, MDM2, MYC, NFATC1, NFKBIA, PARP1, PIDD1, PIM1, RB1, RELA, SPI1, SQSTM1, SRC, STAT3, TP53, WDR77
Activator	15	670	0,00019	ATF4, ATF6, BRCA1, E2F1, HIF1A, HSF1, IRF4, JUN, MAX, MYC, NFATC1, RELA, SPI1, STAT3, TP53
Growth factor	7	130	0,00021	CSF1, CSF2, IL2, IL4, IL5, IL6, VEGFA
Adaptive immunity	7	138	0,00029	BTK, CD19, CD79A, IL2, LYN, SYK, ZAP70
Chromosomal rearrangement	9	312	0,0014	ABL1, BCL2, FGFR1, IL2, IL21R, IRF4, MYC, PDGFRB, RELA
DNA-binding	25	1952	0,0028	ABL1, ATF4, ATF6, ATR, BRCA1, E2F1, ENO1, FOS, FOSB, H2AFX, HIF1A, HSF1, IRF4, JUN, JUNB, MAPK1, MAX, MYC, NFATC1, PARP1, RB1, RELA, SPI1, STAT3, TP53
Immunity	11	507	0,0028	BTK, CD19, CD79A, CSF1, CSF1R, IL2, LYN, SQSTM1, SRC, SYK, ZAP70
Li-Fraumeni syndrome	2	3	0,003	CHEK2, TP53
S-nitrosylation	4	55	0,0036	CASP3, GAPDH, HIF1A, RELA
Growth regulation	4	59	0,0044	IFNG, SOCS3, SOCS6, TGFBR1
Craniosynostosis	3	24	0,0044	FGFR1, P4HB, TGFBR1
Alternative initiation	5	110	0,0049	BRCA1, ENO1, NFATC1, PIM1, VEGFA
Tumor suppressor	6	180	0,0067	BRCA1, CDKN1B, CHEK2, RB1, TP53, TSC2
Glycolysis	3	31	0,0076	ENO1, GAPDH, HK2
Transcription regulation	26	2279	0,0085	ATF4, ATF6, BRCA1, BTK, CHEK2, E2F1, ENO1, FGFR1, HDAC3, HDAC6, HIF1A, HSF1, IRF4, JUN, JUNB, MAPK1, MAPK11, MAX, MYC, NFATC1, PARP1, RB1, RELA, SPI1, STAT3, TP53
Polymorphism	88	11707	0,009	ABL1, AIF1, AKT1, ATF4, ATF6, ATR, BAD, BAK1, BCL2, BIK, BRCA1, BTK, CASP2, CASP3, CASP7, CASP9, CBL, CCND2, CD19, CD44, CDC25A, CDK20, CDKN1A, CDKN1B, CFLAR, CHEK2, CHUK, COX411, CSF1, CSF1R, CSF2, CST3, CST4, CXCR2, CYCS, E2F1, ENO1, FGF13, FGFR1, FOSB, GAB1, GAPDH, HDAC3, HDAC6, HGFA, C, HIF1A, HK2, HSPA5, IFNG, IGF1R, IL21R, IL4, IL6, JUN, JUNB, KDR, KIF11, KIT, LYN, MAPK11, MAX, MCL1, MYC, NFATC1, PARP1, PDGFRB, PIDD1, PIM1, PLCG2, RB1, RPS6, SERPINC1, SOCS3, SOD2, SPP1, SQSTM1, SRC, STAT3, SYK, TBC1D4, TGFBR1, TNF, TP53, TSC2, TUBA1A, TYR, WDR77, ZAP70
Mitochondrion	16	1154	0,0121	ABL1, BAD, BAK1, BCL2, BCL2L1, BIK, CDK1, COX411, CYCS, HK2, MCL1, PMAIP1, SLC25A28, SOD2, SRC, TP53
Zymogen	6	210	0,0121	CASP2, CASP3, CASP7, CASP9, CTSK, HGFAC
Thiol protease	5	145	0,0127	CASP2, CASP3, CASP7, CASP9, CTSK
B-cell activation	2	11	0,0151	BLNK, IL4
Ectodermal dysplasia	3	47	0,0188	MAP2K1, MAP2K2, NFKBIA
Nitration	3	47	0,0188	HSPA5, SOD2, TUBA1A
DNA repair	7	318	0,0194	ABL1, ATR, BRCA1, CHEK2, H2AFX, HSF1, PARP1
Protein kinase inhibitor	2	15	0,0235	CDKN1A, CDKN1B
Mitochondrion outer membrane	4	126	0,0403	BAD, BAK1, BCL2, HK2
Cell division	7	377	0,0439	CCNB1, CCND2, CDC25A, CDK1, CDK20, CHEK2, KIF11
Thiol protease inhibitor	2	24	0,0497	CST3, CST4

Tabla 80. Resultado en *Reactome Pathways*, nombres de las 25 vías de señalización más relevantes basadas en el p-valor; subarray 3 microarray 22.

Pathway name	Entities				Reactions	
	found	ratio	p-value	FDR	found	ratio
<i>Translocation of ZAP-70 to Immunological synapse</i>	15 / 42	0,003	1,11E-16	2,07E-14	4 de 4	3,28E-04
<i>Interleukin-4 and Interleukin-13 signaling</i>	35 / 211	0,015	1,11E-16	2,07E-14	33 / 46	0,004
<i>Signaling by Interleukins</i>	62 / 836	0,059	1,11E-16	2,07E-14	193 / 551	0,045
<i>Cytokine Signaling in Immune system</i>	80 / 1245	0,088	1,11E-16	2,07E-14	229 / 699	0,057
<i>Immune System</i>	99 / 2803	0,198	1,11E-16	2,07E-14	394 / 1,586	0,13
<i>Costimulation by the CD28 family</i>	18 / 97	0,007	8,77E-15	1,09E-12	10 de 34	0,003
<i>Phosphorylation of CD3 and TCR zeta chains</i>	14 / 45	0,003	9,44E-15	1,09E-12	5 de 7	5,74E-04
<i>PD-1 signaling</i>	14 / 45	0,003	9,44E-15	1,09E-12	1 de 4	3,28E-04
<i>Generation of second messenger molecules</i>	15 / 58	0,004	1,45E-14	1,50E-12	3 de 17	0,001
<i>Intrinsic Pathway for Apoptosis</i>	15 / 59	0,004	1,87E-14	1,73E-12	44 / 60	0,005
<i>Generic Transcription Pathway</i>	60 / 1524	0,108	2,41E-13	2,02E-11	309 / 811	0,066
<i>MHC class II antigen presentation</i>	18 / 148	0,01	9,33E-12	6,82E-10	25 / 26	0,002
<i>RNA Polymerase II Transcription</i>	60 / 1663	0,117	9,61E-12	6,82E-10	309 / 872	0,071
<i>PI3K/AKT Signaling in Cancer</i>	17 / 134	0,009	1,89E-11	1,24E-09	19 / 21	0,002
<i>Transcriptional Regulation by TP53</i>	30 / 485	0,034	2,43E-11	1,50E-09	208 / 259	0,021

<i>Downstream TCR signaling</i>	16 / 124	0,009	5,89E-11	3,42E-09	6 de 24	0,002
<i>TCR signaling</i>	17 / 146	0,01	6,97E-11	3,77E-09	18 / 52	0,004
<i>Interferon gamma signaling</i>	21 / 250	0,018	1,46E-10	7,43E-09	12 de 15	0,001
<i>Gene expression (Transcription)</i>	60 / 1821	0,129	3,75E-10	1,84E-08	332 / 983	0,081
<i>Mitotic G1-G1/S phases</i>	17 / 173	0,012	8,90E-10	4,10E-08	57 / 98	0,008
<i>Apoptosis</i>	17 / 187	0,013	2,81E-09	1,23E-07	90 / 139	0,011
<i>AKT phosphorylates targets in the cytosol</i>	7 de 16	0,001	5,06E-09	2,07E-07	9 de 9	7,37E-04
<i>Programmed Cell Death</i>	17 / 195	0,014	5,17E-09	2,07E-07	93 / 152	0,012
<i>PIP3 activates AKT signaling</i>	21 / 315	0,022	8,31E-09	3,16E-07	27 / 86	0,007
<i>Cellular responses to stress</i>	27 / 515	0,036	8,77E-09	3,25E-07	95 / 184	0,015

Tabla 81. Resultado en *Reactome Pathways*, genes implicados en la vía de señalización en cáncer: *PI3K/ AKT*; subarray 3 microarray 22.

Disease: cancer	
Input	Id UniProt/ NeXtProt
AKT	P31749
CASP9	P55211
CHUCK	O15111
HGFA	P14210
NRG2	O14511
TSC2	P49815
AKT1	P31749, Q9Y243
CD19	P15391
FGFR1	P11362-1, P11362 - 19
KIT	P10721
PDGFRB	P09619
BAD	Q92934
CDKN1A	P38936
GAB1	Q13480
MDM2	Q00987
SRC	P12931

Cada uno de estos genes están implicados en diferentes señalizaciones:



<i>Pathway name</i>	<i>Entities found</i>	<i>Entities total</i>	<i>Entities ratio</i>	<i>p-value</i>	<i>FDR</i>	<i>Reactions found</i>	<i>Reactions total</i>
<i>Constitutive Signaling by Aberrant PI3 in Cancer</i>	9	103	0,007	2,24E-05	3,14E-04	1	2

Constitutive Signaling by AKT1 E17K in Cancer

Pathway name	Entities found	Entities total	Entities ratio	p-value	FDR	Reactions found	Reactions total
Constitutive Signaling by AKT1 E17K in Cancer	8	32	0,002	2,96E-08	9,75E-07	18	18

Siendo la vía de señalización de AKT1 E17K la que menor p-valor tiene y menor FDR.

PTEN Loss of Function in Cancer

(No hay proteínas en esta vía de señalización celular)

Tabla 82. Análisis DAVID, ubicación celular de las proteínas, *GOTERM_CC_Direct*, ; subarray 3 microarray 22.

Term	Count	Genes
Cytosol	65	<i>Q9BQAI, P04406, Q71U36, P12931, P06733, P49815, P62753, Q06187, P14679, Q00987, P16885, P52789, Q15759, P30304, P38936, P36507, P55210, P55211, P10415, O43521, O15519, Q92934, Q9HB75, P25963, Q07820, P00519, P52732, Q8WV28, P04637, P14635, P05412, Q04206, Q9UDF2, P55008, O14543, P46527, P30279, Q9UBN7, O15379, Q15306, Q02750, P25685, P06493, O15111, O95644, P43403, P43405, P28482, Q00613, P01106, Q13794, P01100, P07948, Q16665, Q13501, Q13541, Q16611, P99999, Q13480, P78560, P42574, P42575, P40763, P31749, P63267</i>
Nucleus	66	<i>Q9BQAI, P04406, Q71U36, P12931, P06733, P49815, P62753, Q8IZL9, Q06187, P14679, Q00987, P61244, P30304, P38936, P36507, P55210, P55211, P10415, P06400, Q01094, Q9HB75, P25963, Q07820, P00519, P04637, P13073, P14635, P05412, P35968, Q04206, Q9UDF2, P53539, P55008, P46527, P30279, Q9UBN7, O15379, Q15306, Q02750, P25685, P06493, P09874, O95644, P38398, P09619, P43405, P28482, Q00613, P01106, P11021, Q13794, P01100, P16104, P07948, Q92913, P18848, Q16665, P99999, P78560, Q9ULV8, P42574, P42575, P18850, P40763, P31749, P11309</i>
Nucleoplasm	43	<i>P17275, Q9BQAI, P30279, O15379, Q15306, P25685, P62753, P06493, P09874, O15111, Q00987, O95644, P38398, P61244, Q15759, P28482, Q00613, P30304, P01106, P38936, P01100, P55210, P16104, P06400, Q01094, P18848, Q9HB75, Q16665, Q13501, Q13541, O96017, Q07820, P00519, P04637, P14635, P05412, Q13535, Q04206, P42574, P18850, P31749, P46527, P40763</i>
Cytoplasm	63	<i>Q9BQAI, P04406, P12931, P06733, P49815, P62753, Q8IZL9, Q06187, P14679, Q00987, P61244, P30304, P36507, P55210, P10415, O15519, O60343, Q9HB75, P25963, Q07820, P00519, P52732, Q8WV28, P04637, P14635, Q04206, P15692, P55008, O14543, P46527, O14544, Q9UBN7, O15379, Q15306, Q02750, P25685, P06493, P05231, O15111, Q86V86, O95644, P43403, P38398, P09619, P43405, P28482, Q00613, P07948, P01579, Q92913, P18848, P11912, Q16665, Q13501, Q13541, P78560, P42574, P42575, P16070, P31749, P63267, P40763, P11309</i>
Protein complex	15	<i>P27824, Q9UBN7, P15391, Q13541, P09874, P04637, Q00987, P38398, P43405, P28482, Q00613, P01106, P38936, P31749, P46527</i>
Membrane raft	10	<i>O15519, P36897, P35968, Q9ULV8, P43403, P11912, P01375, P42574, Q06187, P07948</i>
PML body	7	<i>P04637, P06400, Q13535, P61244, Q00613, Q13501, O96017</i>
Mitochondrion	23	<i>O43521, Q01094, P12931, Q92934, Q02750, P00519, P06493, Q07820, P09874, Q16611, P04637, P99999, P13073, P04179, P28482, P11021, P01106, P42575, Q13794, P36507, P55211, P31749, P10415</i>

Perinuclear region of cytoplasm	15	<i>P04406, P12931, Q9UBN7, P49815, P62753, P00519, P10451, Q06187, P14679, P09603, P38936, P36507, P55008, P07948, P01034</i>
External side of plasma membrane	9	<i>P10721, P01579, P05112, Q29744, P07237, P11912, P01375, P15391, P05231</i>
Extrinsic component of cytoplasmic side of plasma membrane	6	<i>P12931, P43403, P43405, P00519, Q06187, P07948</i>
Nuclear chromatin	8	<i>P04637, P17275, Q01094, O95644, Q04206, P17947, P40763, P16104</i>
Mast cell granule	4	<i>P10721, Q06187, P25025, P07948</i>
Mitochondrial outer membrane	7	<i>O43521, Q92934, P52789, Q07820, Q13794, Q16611, P10415</i>
Membrane	28	<i>P04406, P36897, P07333, P06733, Q15306, P01375, P49815, P62753, P06493, P09874, P25025, P09619, P52789, Q29744, P11021, P01100, P10415, P27824, Q07820, P52732, P10721, P13073, P14635, P08069, P09603, P15692, P42575, P18850</i>
Endoplasmic reticulum	15	<i>P27824, Q13501, Q02750, P00519, Q16611, Q15125, P04637, P35968, P07237, P11021, P01100, P18850, P36507, P01034, P10415</i>
Extracellular space	19	<i>P01579, P43235, P06733, P01375, P10451, P05231, P05113, P10721, P060568, P09603, P05112, P04141, P01008, Q04756, P15692, P10145, P10136, P63267, P01034</i>
Cell	5	<i>P60568, P36897, P52789, P07237, P25025</i>
Late endosome	5	<i>P12931, P28482, Q13501, Q02750, P36507</i>
Transcription factor complex	6	<i>P17275, P05412, Q16665, Q04206, P09874, P01100</i>
Multivesicular body	3	<i>Q9UBN7, P11912, P01034</i>
Golgi apparatus	13	<i>Q9BQA1, Q9HB75, O15379, P49815, Q02750, O96017, P35968, Q13535, P28482, P18850, P36507, P16070, P07948</i>
CSF1-CSF1R complex	2	<i>P09603, P07333</i>
Extracellular exosome	29	<i>P04406, P12931, Q71U36, P06733, P15391, Q02750, P25685, P06493, P10451, P09619, P16885, P01008, Q29744, P28482, P11021, P07948, P16104, P27824, O60343, Q13501, P13073, P09603, Q9ULV8, P04179, P07237, P16070, P10136, P63267, P01034</i>
Extracellular region	19	<i>P01579, Q92913, P43235, P01375, P10451, P05231, P05113, P60568, P35968, P05112, P04141, P01008, Q04756, P07237, Q9UDF2, P15692, P36507, P10145, P01034</i>
Myelin sheath	5	<i>P27824, Q71U36, P04179, P11021, P10415</i>
Rb-E2F complex	2	<i>P06400, Q01094</i>
B cell receptor complex	2	<i>P43405, P11912</i>
Cell surface	9	<i>P36897, P07333, P09619, Q29744, P01375, P11021, P15692, P16070, P25025</i>
Intracellular	16	<i>P36897, O60343, P07333, P15391, P25025, Q8WV28, O15111, P05113, P60568, P04141, P16885, P28482, P30304, P10145, O14543, O14544</i>
Melanosome	4	<i>P27824, P07237, P11021, P14679</i>
Cytoplasmic side of plasma membrane	3	<i>P10721, P36507, O15111</i>
I-kappaB/NF-kappaB complex	2	<i>P25963, Q04206</i>
Perikaryon	4	<i>P01579, Q9UBN7, P28482, P55008</i>
Spindle microtubule	3	<i>O15379, P06493, P52732</i>
Focal adhesion	7	<i>P09619, P28482, P07237, P11021, Q02750, P16070, P36507</i>
Death-inducing signaling complex	2	<i>O15519, P42574</i>
Plasma membrane	36	<i>P36897, P04406, P12931, P07333, P06733, O15379, P01375, P15391, Q02750, Q06187, P25025, Q00987, P38398, P09619, P43403, P16885, P01008, P43405, Q29744, P11021, P07948, Q92913, P25963, P11912, Q8WV28, P10721, P08069, P09603, P35968, Q9ULV8, Q9UDF2, P42574, P16070, P31749, P40763, P11309</i>
Pore complex	2	<i>Q16611, P10415</i>
Axon	5	<i>Q92913, P27824, Q9UBN7, P28482, P01034</i>
Lysosome	5	<i>P12931, P43235, P49815, P14679, P01034</i>
Cytoplasmic, membrane-bounded vesicle	4	<i>P35968, P09619, Q9UDF2, Q15125</i>
Nuclear membrane	5	<i>P04406, P30279, P00519, P01034, P10415</i>
Caveola	3	<i>P12931, Q9UBN7, P28482</i>
Cytoplasmic vesicle	5	<i>P09619, Q9UDF2, Q13501, Q06187, Q15125</i>
Endoplasmic reticulum chaperone complex	2	<i>P07237, P11021</i>
Neuron projection	5	<i>Q92913, P01579, P12931, P18848, P01100</i>
Cyclin-dependent protein kinase holoenzyme complex	2	<i>P30279, P38936</i>

Figura 4. Ubicación celular de algunas de las proteínas del subarray 3, microarray 22.
Figura creada en *BioRender.com*.

