

Pim-1 (phospho Tyr309) Polyclonal Antibody

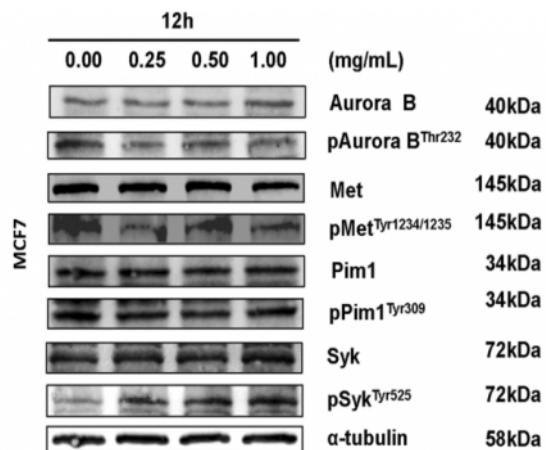
Catalog No :	YP0331
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA
Target :	Pim-1
Fields :	>>JAK-STAT signaling pathway;>>AGE-RAGE signaling pathway in diabetic complications;>>Pathways in cancer;>>MicroRNAs in cancer;>>Acute myeloid leukemia
Gene Name :	PIM1
Protein Name :	Serine/threonine-protein kinase pim-1
Human Gene Id :	5292
Human Swiss Prot No :	P11309
Mouse Swiss Prot No :	P06803
Rat Gene Id :	24649
Rat Swiss Prot No :	P26794
Immunogen :	The antiserum was produced against synthesized peptide derived from human Pim-1 around the phosphorylation site of Tyr309. AA range:281-330
Specificity :	Phospho-Pim-1 (Y309) Polyclonal Antibody detects endogenous levels of Pim-1 protein only when phosphorylated at Y309.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. ELISA: 1:40000. Not yet tested in other applications.

Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	45kD
Cell Pathway :	Jak_STAT;Acute myeloid leukemia;
Background :	The protein encoded by this gene belongs to the Ser/Thr protein kinase family, and PIM subfamily. This gene is expressed primarily in B-lymphoid and myeloid cell lines, and is overexpressed in hematopoietic malignancies and in prostate cancer. It plays a role in signal transduction in blood cells, contributing to both cell proliferation and survival, and thus provides a selective advantage in tumorigenesis. Both the human and orthologous mouse genes have been reported to encode two isoforms (with preferential cellular localization) resulting from the use of alternative in-frame translation initiation codons, the upstream non-AUG (CUG) and downstream AUG codons (PMIDs:16186805, 1825810).[provided by RefSeq, Aug 2011],
Function :	catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Manganese.,function:Plays a role in signal transduction in blood cells. Contributes to both cell proliferation and survival and thus provide a selective advantage in tumorigenesis. May affect the structure or silencing of chromatin by phosphorylating HP1 gamma/CBX3.,induction:Strongly induced in leukocytes by the JAK/STAT pathway in response to cytokines.,PTM:Autophosphorylated on both serine/threonine and tyrosine residues.,similarity:Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. PIM subfamily.,similarity:Contains 1 protein kinase domain.,subunit:Binds to RP9. Isoform 2 is isolated as a monomer whereas isoform 1 complexes with other proteins. Isoform 1, but not isoform 2, binds BMX.,tissue specificity:Expressed primarily in cells of the hematopoietic and germline lineages. Isoform 1 an
Subcellular Location :	[Isoform 1]: Cytoplasm. Nucleus.; [Isoform 2]: Cell membrane.
Expression :	Expressed primarily in cells of the hematopoietic and germline lineages. Isoform 1 and isoform 2 are both expressed in prostate cancer cell lines.
Tag :	orthogonal
Sort :	1147
No4 :	1

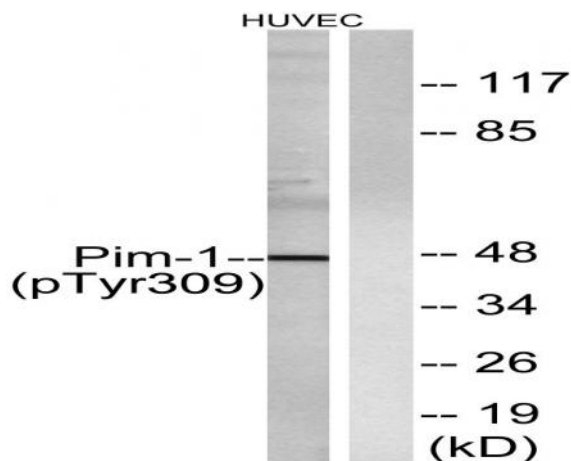
Host : Rabbit

Modifications : Phospho

Products Images



Wang, T., Liang, L., Zhao, C. et al. Elucidating direct kinase targets of compound Danshen dropping pills employing archived data and prediction models. *Sci Rep* 11, 9541 (2021).



Western blot analysis of lysates from HUVEC cells treated with PMA 125ng/ml 30', using Pim-1 (Phospho-Tyr309) Antibody. The lane on the right is blocked with the phospho peptide.