

**Pim-1 (phospho Tyr309) Polyclonal Antibody**

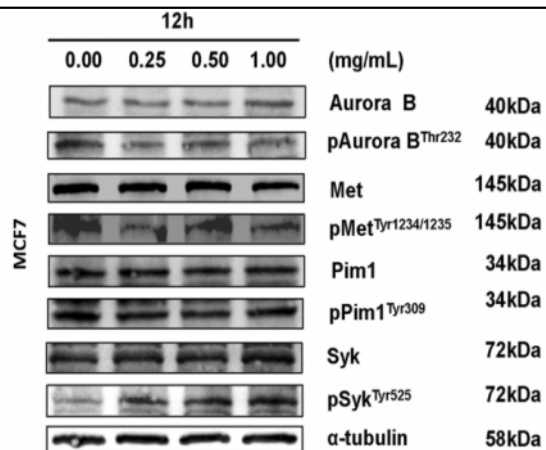
<b>Catalog No :</b>	YP0331
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;ELISA
<b>Target :</b>	Pim-1
<b>Fields :</b>	>>JAK-STAT signaling pathway;>>AGE-RAGE signaling pathway in diabetic complications;>>Pathways in cancer;>>MicroRNAs in cancer;>>Acute myeloid leukemia
<b>Gene Name :</b>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

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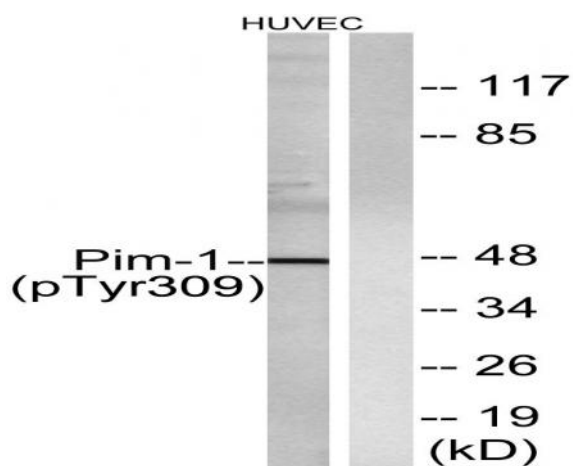
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	45kD
<b>Cell Pathway :</b>	Jak_STAT;Acute myeloid leukemia;
<b>Background :</b>	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],
<b>Function :</b>	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
<b>Subcellular Location :</b>	[Isoform 1]: Cytoplasm. Nucleus.; [Isoform 2]: Cell membrane.
<b>Expression :</b>	Expressed primarily in cells of the hematopoietic and germline lineages. Isoform 1 and isoform 2 are both expressed in prostate cancer cell lines.

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## 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.