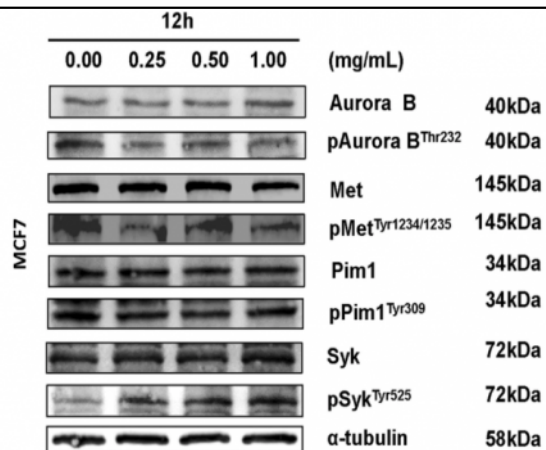


Pim-1 (phospho Tyr309) Polyclonal Antibody

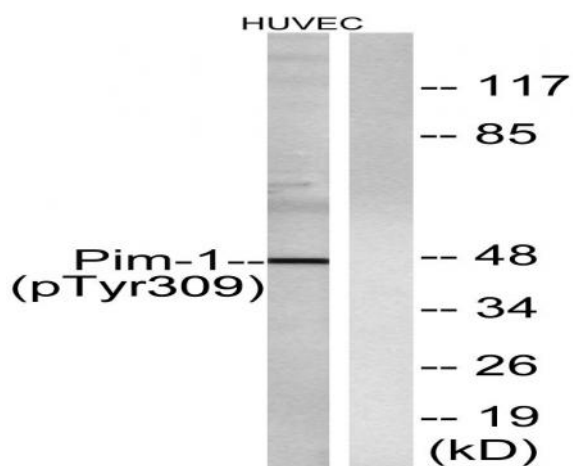
Catalog No :	YP0331
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA
Target :	Pim-1
Fields :	>>JAK-STAT signaling pathway;>>AGE-RAGE signaling pathway in diabetic complications;>>Pathways in cancer;>>MicroRNAs in cancer;>>Acute myeloid leukemia
Gene Name :	PIM1
Protein Name :	Serine/threonine-protein 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 :	<p>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],</p>
Function :	<p>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</p>
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.

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.