

## Pim-1 Polyclonal Antibody

<b>Catalog No :</b>	YT3728
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IHC
<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. AA range:281-330
<b>Specificity :</b>	Pim-1 Polyclonal Antibody detects endogenous levels of Pim-1 protein.
<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 1:500-2000;IHC 1:50-300
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

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**Concentration :** 1 mg/ml

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**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

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**Observed Band :** 50kD

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**Cell Pathway :** Jak\_STAT;Acute myeloid leukemia;

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**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],

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**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

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**Subcellular Location :** [Isoform 1]: Cytoplasm. Nucleus.; [Isoform 2]: Cell membrane.

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**Expression :** 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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**Sort :** 12706

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**No4 :** 1

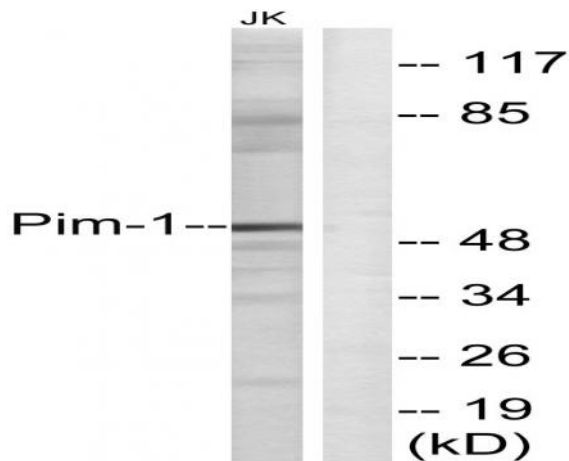
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**Host :** Rabbit

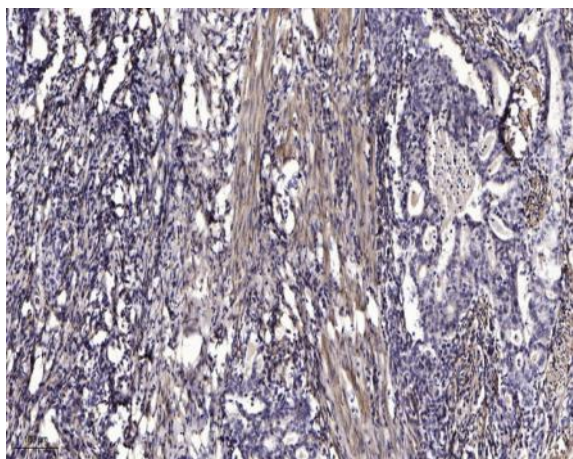
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**Modifications :** Unmodified

## Products Images



Western blot analysis of lysates from Jurkat cells, using Pim-1 Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human Gastric adenocarcinoma. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).