

PIM1

Reactivity: Human Mouse Rat

Tested applications: WB IHC ICC

Recommended Dilution: WB 1:500 - 1:2000 IHC 1:50 - 1:200 ICC 1:50 - 1:200

Calculated MW: 46/33kDa

Observed MW: Refer to Figures

Immunogen:

A synthetic peptide of human PIM1

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

PIM; Serine/threonine-protein kinase pim-1 antibody;

Catalog #: A0175

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 5292

Isotype: IgG

Swiss Prot: P11309

Purity: Affinity purification

For research use only.

Background:

Protein kinase Pim-1 is a serine/threonine kinase that has been implicated in the development of hematopoietic and prostatic malignancies. Two isoforms, the 44 and 33 kDa Pim-1, are expressed in all human prostate cancer cell lines examined. The subcellular localization of human 44 kDa Pim-1 is primarily on the plasma membrane, while the 33 kDa isoform is present in both the cytosol and nucleus in PCA cells. The nuclear location of Pim-1 is essential for its regulation of the levels of HDM2 protein, and possibly for additional biological activities of this protein kinase. Studies imply a physiological role of the Pim-1 protooncogene during hematopoietic development and a deregulation in various leukemias. Pim-1 is capable of enhancing the rate of occurrence of c-Myc-induced lymphomas, and functions to block factor-withdrawal and genotoxic stress-induced apoptosis. During human fetal hematopoiesis Pim-1 is highly expressed in the liver and spleen. In contrast, at the adult stage it is only slightly expressed in circulating granulocytes.

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