**BACKGROUND**

Pim-1 is a serine/threonine kinase that cooperates with c-Myc in lymphoid cell transformation. The expression of Pim-1 increases during the progression from early to late G1, remaining high at the G1/S boundary and G2 phases of the cell cycle. Pim-1 is regulated at both the transcriptional and translational level, and it has been shown to be induced by IL-2 stimulation. Pim-1 also plays a role in T-cell differentiation, and it has been shown to stimulate c-Myc-mediated apoptotic upstream of caspase-3-like proteases.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: PIM1 [human] mapping to 6p21.2; Pim1 [mouse] mapping to 17 A3.3.

**SOURCE**

Pim-1 (E-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Pim-1 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-26375_P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

**APPLICATIONS**

Pim-1 (E-16) is recommended for detection of Pim-1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Pim-1 (E-16) is also recommended for detection of Pim-1 in additional species, including equine, canine, bovine, porcine and feline.

Suitable for use as control antibody for Pim-1 siRNA (h): sc-36225, Pim-1 siRNA (m): sc-36226, Pim-1 shRNA Plasmid (h): sc-36225-SH, Pim-1 shRNA Plasmid (m): sc-36226-SH, Pim-1 shRNA (h) Lentiviral Particles: sc-36225-V and Pim-1 shRNA (m) Lentiviral Particles: sc-36226-V.

Molecular Weight of Pim-1: 33 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203, mouse spleen extract: sc-2391 or PC-3 cell lysate: sc-2220.

**DATA**

Pim-1 (E-16): sc-26375. Western blot analysis of Pim-1 expression in K-562 ([A]) and PC-3 ([B]) whole cell lysates.

Pim-1 (E-16): sc-26375. Immunoperoxidase staining of formalin fixed, paraffin-embedded human nasopharynx tissue showing nuclear staining of respiratory epithelial cells.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**MONOS Satisfaction Guaranteed**

Try Pim-1 (G-11): sc-374116 or Pim-1 (12H8): sc-13513, our highly recommended monoclonal alternatives to Pim-1 (E-16). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see Pim-1 (G-11): sc-374116.