

Pim-3 (H-40): sc-98959

BACKGROUND

The Pim (provirus integration site for Moloney murine leukemia virus) family serine/threonine protein kinases were first identified in studies examining genes targeted for proviral insertion in murine leukemia virus-induced T lymphomas. Increased levels of Pim kinases predispose cells to lymphomagenesis and enhance the activity of mitogenic proteins such as p100, c-Myb and Cdc25A. In addition, Pim kinases are also involved in modulation of synaptic strength in neurons and anti-apoptotic signaling in hematopoietic progenitor cells. Pim-3, a member of the proto-oncogene Pim family that expresses serine/threonine kinase activity, shares significant homology with Pim-1 serine/threonine protein kinases. Pim-3 may function as a mediator of synaptic plasticity in the brain and is presumably involved in the anti-apoptosis process and cell cycle progression as well as the proliferation of human hepatoma cell lines. The Pim-3 protein is widely expressed, however no expression is observed in the colon, thymus or small intestine.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PIM3 (human) mapping to 22q13.33; Pim3 (mouse) mapping to 15 E3.

RESEARCH USE

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

SOURCE

Pim-3 (H-40) is a rabbit polyclonal antibody raised against amino acids 51-90 mapping near the N-terminus of Pim-3 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.

APPLICATIONS

Pim-3 (H-40) is recommended for detection of Pim-3 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

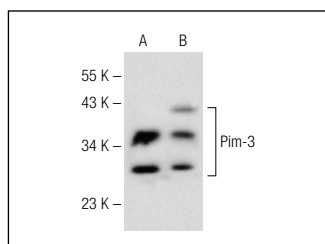
Pim-3 (H-40) is also recommended for detection of Pim-3 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for Pim-3 siRNA (h): sc-61353, Pim-3 siRNA (m): sc-61354, Pim-3 shRNA Plasmid (h): sc-61353-SH, Pim-3 shRNA Plasmid (m): sc-61354-SH, Pim-3 shRNA (h) Lentiviral Particles: sc-61353-V and Pim-3 shRNA (m) Lentiviral Particles: sc-61354-V.

Molecular Weight of Pim-3: 36 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204 or LNCaP cell lysate: sc-2231.

DATA



Pim-3 (H-40): sc-98959. Western blot analysis of Pim-3 expression in LNCaP (A) and Jurkat (B) whole cell lysates.

STORAGE

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

MONOS
Satisfaction
Guaranteed

Try **Pim-3 (4A9): sc-293237**, our highly recommended monoclonal alternative to Pim-3 (H-40).