BACKGROUND
The Pim-2 gene product (provirus integration site for Moloney murine leukemia virus), is a serine/threonine kinase that is capable of autophosphorylation. Human transcripts for Pim-2 have been detected in hematopoietic lineages as well as leukemic and lymphomic cells (K-562, HL-60, RAJI, SW480, testis, small intestine and colon). Additionally, Pim-2 kinase is found at moderate levels and is distributed evenly throughout the brain. Pim-2 kinase is implicated in tumor phenotypes and may be involved in the formation and preservation of long-term potentiation (LTP), a profuse, activity-dependent enhancement of synaptic efficacy that is implicated in long-term memory.

CHROMOSOMAL LOCATION
Genetic locus: PIM2 (human) mapping to Xp11.23; Pim-2 (mouse) mapping to X A1.1.

SOURCE
Pim-2 (1D12) is a mouse monoclonal antibody raised against full length of Pim-2 of mouse origin.

PRODUCT
Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Pim-2 (1D12) is available conjugated to agarose (sc-13514 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-13514 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-13514 PE), fluorescein (sc-13514 FITC), Alexa Fluor® 488 (sc-13514 AF488), Alexa Fluor® 546 (sc-13514 AF546), Alexa Fluor® 594 (sc-13514 AF594) or Alexa Fluor® 647 (sc-13514 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-13514 AF680) or Alexa Fluor® 790 (sc-13514 AF790), 200 µg/ml, for Near Infrared (NIR) WB, IF and FCM.

APPLICATIONS
Pim-2 (1D12) is recommended for detection of Pim-2 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 immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).


Molecular Weight of Pim-2 human short isoform: 34 kDa.
Molecular Weight of Pim-2 mouse short/medium/long isoform: 34/38/40 kDa.

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

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

DATA

SELECT PRODUCT CITATIONS

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

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