

1523

Pim-1 (D8D7Y) Rabbit mAb



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Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 34, 44	Source/Isotype: Rabbit IgG	UniProt ID: #P11309	Entrez-Gene Id: 5292
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:200	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Pim-1 (D8D7Y) Rabbit mAb recognizes endogenous levels of total Pim-1 protein. No cross reactivity was detected with other Pim family members.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant protein specific to a central region of human Pim-1 protein.				
Background		Pim proteins (Pim-1, Pim-2 and Pim-3) are oncogene-encoded serine/threonine kinases (1). Pim-1, a serine/threonine kinase highly expressed in hematopoietic cells, plays a critical role in the transduction of mitogenic signals and is rapidly induced by a variety of growth factors and cytokines (1-4). Pim-1 cooperates with c-Myc in lymphoid cell transformation and protects cells from growth factor withdrawal and genotoxic stress-induced apoptosis (5,6). Pim-1 also enhances the transcriptional activity of c-Myb through direct phosphorylation within the c-Myb DNA binding domain as well as phosphorylation of the transcriptional coactivator p100 (7,8). Hypermutations of the Pim-1 gene are found in B-cell diffuse large cell lymphomas (9). Phosphorylation of Pim-1 at Tyr218 by Etk occurs following IL-6 stimulation and correlates with an increase in Pim-1 activity (10). Various Pim substrates have been identified; Bad is phosphorylated by both Pim-1 and Pim-2 at Ser112 and this phosphorylation reverses Bad-induced cell apoptosis (11,12). The corresponding pim-1 gene encodes a pair of proteins through use of different translation initiation sites. Both larger 44 kDa (Pim-1L) and smaller 33 kDa (Pim-1S) proteins are active kinases, but differ in stability (13).				
Background References		 Mikkers, H. et al. (2004) Mol Cell Biol 24, 6104-15. Selten, G. et al. (1986) Cell 46, 603-11. Meeker, T.C. et al. (1987) J Cell Biochem 35, 105-12. Dautry, F. et al. (1988) J Biol Chem 263, 17615-20. Möröy, T. et al. (1993) Proc Natl Acad Sci USA 90, 10734-8. Lilly, M. and Kraft, A. (1997) Cancer Res 57, 5348-55. Leverson, J.D. et al. (1998) Mol Cell 2, 417-25. Winn, L.M. et al. (2003) Cell Cycle 2, 258-62. Pasqualucci, L. et al. (2001) Nature 412, 341-6. Kim, O. et al. (2004) Oncogene 23, 1838-44. Aho, T.L. et al. (2004) FEBS Lett 571, 43-9. Yan, B. et al. (2003) J Biol Chem 278, 45358-67. Saris, C.J. et al. (1991) EMBO J 10, 655-64. 				

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: Human M: Mouse R: Rat

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