3/23/24, 11:13 AM Revision 1

e at -20C	Pim-2 (D1D2) Rabbit mAb			
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com	
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 40, 38, 34	Source/Isotype: Rabbit	UniProt ID: #Q9P1W9	Entrez-Gene Id: 11040	
Product Usage Information	١	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100		
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-2 (D1D2) Rabbit mAb detects endogenous levels of total Pim-2 protein. The antibody does not cross- react with other Pim family members.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Cys266 of human Pim-2.					
Background	SG T G G G G G G G G G G G G G G G G G G	erine/threonine kinase I nitogenic signals and is ooperates with c-Myc ir enotoxic stress-induced irect phosphorylation w anscriptional coactivato ell lymphomas (9). Pho orrelates with an increa hosphorylated by both I poptosis (11,12). im-2 is highly homologo e generated from altern variety of apoptotic stir	highly expressed rapidly induced h lymphoid cell tr d apoptosis (5,6) ithin the c-Myb I or p100 (7,8). Hy sphorylation of F se in Pim-1 activ Pim-1 and Pim-2 ous to Pim-1 with lative start sites nuli and its expr	The oncogene-encoded s d in hematopoietic cells, by a variety of growth fa ransformation and protec). Pim-1 also enhances t DNA binding domain as repermutations of the Pim Pim-1 at Tyr218 by Etk o vity (10). Various Pim su 2 at Ser112 and this pho h similar oncogenic func which run at 34, 38, and ession is negatively regun	plays a critical role in t ctors and cytokines (1 cts cells from growth fa he transcriptional activ well as phosphorylation -1 gene are found in B ccurs following IL-6 sti bstrates have been ide sphorylation reverses tions (13,14). Three is 40 kDa (13). Pim-2 le ulated by growth factor	the transduction of -4). Pim-1 actor withdrawal and vity of c-Myb through n of the B-cell diffuse large imulation and entified; Bad is Bad-induced cell oforms of Pim-2 can vads to resistance to	
Background References		 Mikkers, H. et al. (2004) <i>Mol Cell Biol</i> 24, 6104-15. Selten, G. et al. (1986) <i>Cell</i> 46, 603-11. Meeker, T.C. et al. (1987) <i>J Cell Biochem</i> 35, 105-12. Dautry, F. et al. (1988) <i>J Biol Chem</i> 263, 17615-20. Möröy, T. et al. (1993) <i>Proc Natl Acad Sci USA</i> 90, 10734-8. Lilly, M. and Kraft, A. (1997) <i>Cancer Res</i> 57, 5348-55. Leverson, J.D. et al. (1998) <i>Mol Cell</i> 2, 417-25. Winn, L.M. et al. (2003) <i>Cell Cycle</i> 2, 258-62. Pasqualucci, L. et al. (2001) <i>Nature</i> 412, 341-6. Kim, O. et al. (2004) <i>Oncogene</i> 23, 1838-44. Aho, T.L. et al. (2003) <i>J Biol Chem</i> 278, 45358-67. van der Lugt, N.M. et al. (1995) <i>EMBO J</i> 14, 2536-44. Breuer, M.L. et al. (1998) <i>EMBO J</i> 8, 743-8. Fox, C.J. et al. (2003) <i>Genes Dev</i> 17, 1813-6. White, E. (2003) <i>Genes Dev</i> 17, 1813-6. Cohen, A.M. et al. (2004) <i>Leuk Lymphoma</i> 45, 951-5. Dai, H. et al. (2005) <i>Prostate</i> 65, 276-86. 					

Species Reactivity

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

3/23/24, 11:13 AM Western Blot Buffer	Pim-2 (D1D2) Rabbit mAb (#4730) Datasheet Without Images Cell Signaling Technology 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	WB: Western Blotting IP: Immunoprecipitation		
Cross-Reactivity Key	 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected 		
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