

Puma (E1S7A) Rabbit mAb



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Applications: W, IP	Reactivity: M R	Sensitivity: Endogenous	MW (kDa): 23-25	Source/Isotype: Rabbit IgG	UniProt ID: #Q99ML1	Entrez-Gene Id: 170770
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. <i>Do not aliquot the antibody.</i>				
Specificity/Sensitivity		Puma (E1S7A) Rabbit mAb recognizes endogenous levels of total Puma protein in mouse and rat.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro75 of mouse Puma protein.				
Background		Puma (p53 upregulated modulator of apoptosis) is a "BH3-only" Bcl-2 family member originally identified in differential gene expression studies as a p53-inducible gene (1,2). The "BH3-only" family members include Bad, Bid, Bik, Hrk, Bim, and Noxa, all of which contain a BH3 domain but lack other conserved domains, BH1 and BH2, and generally promote apoptosis by binding to and antagonizing anti-apoptotic Bcl-2 family members through BH3 domain interactions (3). Two BH3-containing proteins are produced from the <i>puma</i> gene, Puma-α and Puma-β, both of which are induced by p53, bind Bcl-2 and Bcl-xL, localize to the mitochondria, and promote cytochrome c release and apoptosis (1,2). Puma plays a critical role in the p53 tumor suppressor pathway. Targeted disruption of the <i>puma</i> gene impairs p53-mediated apoptosis and tumor suppression (4-7). Puma knockout mice show defects from multiple apoptotic stimuli, including ionizing irradiation, deregulated c-Myc expression, and cytokine withdrawal (4).				
Background References		 Yu, J. et al. (2001) Mol Cell 7, 673-82. Nakano, K. and Vousden, K.H. (2001) Mol Cell 7, 683-94. Bouillet, P. and Strasser, A. (2002) J Cell Sci 115, 1567-74. Jeffers, J.R. et al. (2003) Cancer Cell 4, 321-8. Hemann, M.T. et al. (2004) Proc Natl Acad Sci U S A 101, 9333-8. Yu, J. et al. (2003) Proc Natl Acad Sci U S A 100, 1931-6. Villunger, A. et al. (2003) Science 302, 1036-8. 				
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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				

Applications Key W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key M: Mouse R: Rat

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