Puma Antibody (Rodent Specific)





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Applications: W, IP	Reactivity: M R	Sensitivity: Endogenous	MW (kDa): 23	Source/Isotype: Rabbit	UniProt ID: #Q99ML1	Entrez-Gene Id: 170770		
Product Usage Information	2	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 and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity/Sen	ecificity/Sensitivity Puma Antibody (Rodent Specific) recognizes endogenous levels of total Puma protein in mous					n in mouse and rat.		
Source / Purifi	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro75 of mouse Puma protein. Antibodies are purified by protein A and peptide affinity chromatography.						
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 suppression 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 R	eferences	 Yu, J. et al. (2001) <i>Mol Cell</i> 7, 673-82. Nakano, K. and Vousden, K.H. (2001) <i>Mol Cell</i> 7, 683-94. Bouillet, P. and Strasser, A. (2002) <i>J Cell Sci</i> 115, 1567-74. Jeffers, J.R. et al. (2003) <i>Cancer Cell</i> 4, 321-8. Hemann, M.T. et al. (2004) <i>Proc Natl Acad Sci U S A</i> 101, 9333-8. Yu, J. et al. (2003) <i>Proc Natl Acad Sci U S A</i> 100, 1931-6. Villunger, A. et al. (2003) <i>Science</i> 302, 1036-8. 						
Species Reacti	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot E	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 K	ey	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivi	ty Key	M: Mouse R: Rat						
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