#12450 Store at -20C

Puma (D30C10) Rabbit mAb



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Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 23	Source/Isotype: Rabbit IgG	UniProt ID: #Q9BXH1	Entrez-Gene Id: 27113	
Product Usage Information	Ар	plication		Dilution			
	We	estern Blotting		1:1000			
	Imi	nunoprecipitation			1:50		
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		Puma (D30C10) Rabbit mAb recognizes endogenous levels of total Puma protein. This antibody also cross-reacts with a protein of unknown origin at 60 kDa.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human Puma protein.					
Background	diffe Bad BH1 mer gen mito tum tum	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 Refe	1. Yu, J. et al. (2001) <i>Mol Cell</i> 7, 673-82. 2. Nakano, K. and Vousden, K.H. (2001) <i>Mol Cell</i> 7, 683-94. 3. Bouillet, P. and Strasser, A. (2002) <i>J Cell Sci</i> 115, 1567-74. 4. Jeffers, J.R. et al. (2003) <i>Cancer Cell</i> 4, 321-8. 5. Hemann, M.T. et al. (2004) <i>Proc Natl Acad Sci U S A</i> 101, 9333-8. 6. Yu, J. et al. (2003) <i>Proc Natl Acad Sci U S A</i> 100, 1931-6.						

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 WB: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: ht

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

7. Villunger, A. et al. (2003) Science 302, 1036-8.

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