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## Puma (D30C10) Rabbit mAb



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W, IP	Reactivity:	Endogenous	<b>MW (KDa):</b> 23	Rabbit IgG	#Q9BXH1	27113	
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 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. Do not aliquot the antibody.					
Specificity/Sensi	itivity	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 / Purifica	ntion	<b>)n</b> Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human 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 1. Yu, J. et al. (2001) Mol Cell 7, 673-82.   2. Nakano, K. and Vousden, K.H. (2001) Mol Cell 7, 683-94.   3. Bouillet, P. and Strasser, A. (2002) J Cell Sci 115, 1567-74.   4. Jeffers, J.R. et al. (2003) Cancer Cell 4, 321-8.   5. Hemann, M.T. et al. (2004) Proc Natl Acad Sci U S A 101, 9333-8.   6. Yu, J. et al. (2003) Proc Natl Acad Sci U S A 100, 1931-6.   7. Villunger, A. et al. (2003) Science 302, 1036-8.							
Species Reactivi	ty	Species reactivity is de	termined by testing	g in at least one approve	d application (e.g.,	western blot).	
Western Blot Bu	ffer	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					
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