

## Puma (D7L9L) Rabbit mAb



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## For Research Use Only. Not for Use in Diagnostic Procedures.

<b>Applications:</b> W, IP, IF-IC	<b>Reactivity:</b> M R	<b>Sensitivity:</b> Endogenous	MW (kDa): 23-25	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q99ML1	Entrez-Gene Id: 170770
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation Immunofluorescence		istry)		<b>Dilution</b> 1:1000 1:200 1:800
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/Sensitivity		Puma (D7L9L) 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 Arg84 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 Ro	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. 7. Villunger, A. et al. (2003) <i>Science</i> 302, 1036-8.					
Species Reacti	vity	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** W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)

**Cross-Reactivity Key** M: Mouse R: Rat

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