

976

Puma Antibody



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

Applications:	Reactivity:	Sensitivity: Endogenous	MW (kDa):	Source/Isotype: Rabbit	UniProt ID: #Q9BXH1	Entrez-Gene Id: 27113
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Puma Antibody detects endogenous levels of total Puma protein. The antibody also cross-reacts with an 18kDa band of unknown origin.				
Species predicted to react based on 100% sequence homology		Monkey				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the carboxy-terminal region of human Puma. 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 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) <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 Reactiv	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed 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

Cross-Reactivity Key H: Human

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