

2105

Bak (D4E4) Rabbit mAb



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Applications: W, IP, IHC-P, IF-IC, FC-FP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 25	Source/Isotype: Rabbit IgG	UniProt ID: #Q16611	Entrez-Gene Id: 578	
Product Usage		Application Dilu				ution	
Information		Western Blotting			1:1	000	
		Immunoprecipitation 1:100				00	
		Immunohistochemistry (Paraffin)			1:200 - 1:800		
		Immunofluorescence (Immunocytochemistry)			1:100 - 1:200		
		Flow Cytometry (Fixed	d/Permeabilized)		1:5	0 - 1:200	
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.					
		For a carrier free (BSA	and azide free) ver	sion of this product see	product #87579.		
Specificity/Sensitivity		Bak (D4E4) Rabbit mAb recognizes endogenous levels of total Bak protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly75 of human Bak protein.					
Background		Bak is a proapoptotic member of the Bcl-2 family (1). This protein is located on the outer membrane of mitochondria and is an essential component for transduction of apoptotic signals through the mitochondrial pathway (2,3). Upon apoptotic stimulation, an upstream stimulator like truncated BID (tBID) induces conformational changes in Bak to form oligomer channels in the mitochondrial membrane for cytochrome c release. The release of cytochrome c to the cytosol activates the caspase-9 pathway and eventually leads to cell death (4,5).					
Background References		 Gross, A. et al. (1999) Genes Dev. 13, 1899-1911. Wei, M.C. et al. (2001) Science 292, 727-730. Zong, W.X. et al. (2001) Genes Dev. 15, 1481-1486. Degenhardt, K. et al. (2002) J. Biol. Chem. 277, 14127-14134. Wei, M.C. et al. (2000) Genes Dev. 14, 2060-2071. 					
Species Reactiv	rity	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					

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, 1 TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key	W: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)				
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey				
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