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#6947

## Bak (D2D3) Rabbit mAb

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

<b>Applications:</b> W, IP	<b>Reactivity:</b> H Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 25	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q16611	<b>Entrez-Gene Id:</b> 578
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<b>Product Usage Information</b>	<b>Application</b> Western Blotting Immunoprecipitation	<b>Dilution</b> 1:1000 1:100
<b>Storage</b>	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.	
<b>Specificity/Sensitivity</b>	Bak (D2D3) Rabbit mAb recognizes endogenous levels of total Bak protein.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly82 of human Bak protein.	
<b>Background</b>	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).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>Gross, A. et al. (1999) <i>Genes Dev.</i> 13, 1899-1911.</li> <li>Wei, M.C. et al. (2001) <i>Science</i> 292, 727-730.</li> <li>Zong, W.X. et al. (2001) <i>Genes Dev.</i> 15, 1481-1486.</li> <li>Degenhardt, K. et al. (2002) <i>J. Biol. Chem.</i> 277, 14127-14134.</li> <li>Wei, M.C. et al. (2000) <i>Genes Dev.</i> 14, 2060-2071.</li> </ol>	
<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).	
<b>Western Blot Buffer</b>	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.	
<b>Applications Key</b>	<b>W:</b> Western Blotting <b>IP:</b> Immunoprecipitation	
<b>Cross-Reactivity Key</b>	<b>H:</b> Human <b>Mk:</b> Monkey	
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