#12105 Bak (D4E4) Ral	<b>(D4E4) Rabbit mAb</b> TECHNOLOGY® Orders: 877-616-CELL (2355)					
Stor				Orders:	877-616-CELL (2355) orders@cellsignal.com	
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	Lion in Diagnostia Droop	duraa	3 Trask La	ane   Danvers   Mas	ssachusetts   01923   USA	
For Research Use Only. Not for Applications: Reactiv WB, IP, IHC-P, IF-IC, H M R FC-FP	vity: Sensitivity:	<b>MW (kDa):</b> 25	Source/Isotype: Rabbit IgG	UniProt ID: #Q16611	Entrez-Gene Id: 578	
Product Usage	Application			Dilution		
Information	Western Blotting			1:1000		
	Immunoprecipitation	Immunoprecipitation			1:100	
	Immunohistochemistry	(Paraffin)		1:	200 - 1:800	
	•	Immunofluorescence (Immunocytochemistry)			100 - 1:200	
	Flow Cytometry (Fixed/Permeabilized) 1:50 - 1:200					
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/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) version of this product see product #87579.					
Specificity / Sensitivity	ecificity / Sensitivity Bak (D4E4) Rabbit mAb recognizes endogenous levels of total Bak protein.					
Source / Purification	<b>Purification</b> 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	1. Gross, A. et al. (1999) 2. Wei, M.C. et al. (2001 3. Zong, W.X. et al. (200 4. Degenhardt, K. et al. ( 5. Wei, M.C. et al. (2000	) Science 292, 7 1) Genes Dev. 1 (2002) J. Biol. C	727-730. 15, 1481-1486. <i>hem.</i> 277, 14127-14134.			
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, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications Key	WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)					
Cross-Reactivity Key	<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>					
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