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A1/Bfl-1 (D1A1C) Rabbit mAb



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Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 18	Source/Isotype: Rabbit IgG	UniProt ID: #Q16548	Entrez-Gene Id: 597	
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100		
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/Sen	sitivity	A1/Bfl-1 (D1A1C) Rabbit mAb recognizes endogenous levels of total A1/Bfl-1 protein. Proteins of unknown origin are detected at 50 and 130 kDa in some cell lines.					
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly29 of human A1/Bfl-1 protein.					
Background		The Bcl-2-related protein A1 (Bfl-1, BCL2A1) is an anti-apoptotic member of the Bcl-2 family originally cloned from mouse bone marrow as a granulocyte macrophage-colony stimulating factor (GM-CSF)-inducible gene (1). Expression of A1/Bfl-1 is primarily restricted to hematopoietic cells, although it has been detected in some non-hematopoietic tissues including lung and in endothelial cells (1,2). A1/Bfl-1 protein is rapidly induced by NF-κB and is elevated in response to a variety of factors that stimulate this pathway, including TNF- α and IL-1 β , CD40, phorbol ester, and LPS (2-4). As with other Bcl-2 family (Bid, Bim), which inhibits release of mitochondrial cytochrome c (5). In contrast, research studies indicate that the enzyme calpain cleaves A1/Bfl-1 at specific sites within the amino-terminal region, creating pro-apoptotic, carboxy-terminal fragments that promote mitochondrial release of cytochrome c and apoptosis (6). Studies suggest a possible therapeutic strategy of targeting apoptosis through use of the specific A1/Bfl-1 cleavage fragments (7).					
Background Ro	eferences	 Lin, E.Y. et al. (1993) <i>J Immunol</i> 151, 1979-88. Karsan, A. et al. (1996) <i>Blood</i> 87, 3089-96. Lee, H.H. et al. (1999) <i>Proc Natl Acad Sci USA</i> 96, 9136-41. Zong, W.X. et al. (1999) <i>Genes Dev</i> 13, 382-7. Werner, A.B. et al. (2002) <i>J Biol Chem</i> 277, 22781-8. Kucharczak, J.F. et al. (2005) <i>Cell Death Differ</i> 12, 1225-39. Valero, J.G. et al. (2012) <i>PLoS One</i> 7, e38620. 					
Species Reacti	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Western Blot E	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 K	ey	W: Western Blotting IP: Immunoprecipitation					
Cross-Reactivi	ty Key	H: Human					
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