Bcl-2 Antibody (Human Specific)



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

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 28	Source/Isotype: Rabbit	UniProt ID: #P10415	Entrez-Gene Id: 596
Product Usage Information	2	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		Bcl-2 antibody (Human Specific) detects endogenous levels of total Bcl-2 protein. The antibody does not cross-react with other Bcl-2 family members.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly41 of human Bcl-2, a region not conserved in mouse or rat. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Bcl-2 exerts a survival function in response to a wide range of apoptotic stimuli through inhibition of mitochondrial cytochrome c release (1). It has been implicated in modulating mitochondrial calcium homeostasis and proton flux (2). Several phosphorylation sites have been identified within Bcl-2, including Thr56, Ser70, Thr74, and Ser87 (3). It has been suggested that these phosphorylation sites may be targets of the ASK1/MK7/JNK1 pathway and that phosphorylation of Bcl-2 may be a marker for mitotic events (4,5). Mutation of Bcl-2 at Thr56 or Ser87 inhibits its anti-apoptotic activity during glucocorticoid-induced apoptosis of T lymphocytes (6). Interleukin-3 and JNK-induced Bcl-2 phosphorylation at Ser70 may be required for its enhanced anti-apoptotic functions (7).				
Background References		 Murphy, K.M. et al. (2000) Cell Death Differ 7, 102-11. Zhu, L. et al. (1999) J Biol Chem 274, 33267-73. Maundrell, K. et al. (1997) J Biol Chem 272, 25238-42. Yamamoto, K. et al. (1999) Mol Cell Biol 19, 8469-78. Ling, Y.H. et al. (1998) J Biol Chem 273, 18984-91. Huang, S.T. and Cidlowski, J.A. (2002) FASEB J 16, 825-32. Deng, X. et al. (2001) J Biol Chem 276, 23681-8. 				

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 W: Western Blotting

Cross-Reactivity Key H: Human

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