## Phospho-Bcl-2 (Ser70) (5H2) Rabbit mAb





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Applications: W, FC-FP	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 28	Source/Isotype: Rabbit IgG	<b>UniProt ID:</b> #P10415	Entrez-Gene Id: 596		
Product Usage Information		<b>Application</b> Western Blotting Flow Cytometry (Fixed/Permeabilized)			<b>Dilution</b> 1:1000 1:100 - 1:400			
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) version of this product see product #24152.						
Specificity/Sen	sitivity	Phospho-Bcl-2 (Ser70) (5H2) Rabbit mAb detects endogenous levels of Bcl-2 only when phosphorylated at serine 70. The antibody does not cross-react with nonphosphorylated Bcl-2 at endogenous levels or with other Bcl-2 family members.						
Source / Purific	cation	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding serine 70 of human Bcl-2.						
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/MKK7/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 Re	eferences	1. Murphy, K.M. et al. (2000) <i>Cell Death Differ</i> 7, 102-11. 2. Zhu, L. et al. (1999) <i>J Biol Chem</i> 274, 33267-73. 3. Maundrell, K. et al. (1997) <i>J Biol Chem</i> 272, 25238-42. 4. Yamamoto, K. et al. (1999) <i>Mol Cell Biol</i> 19, 8469-78. 5. Ling, Y.H. et al. (1998) <i>J Biol Chem</i> 273, 18984-91. 6. Huang, S.T. and Cidlowski, J.A. (2002) <i>FASEB J</i> 16, 825-32. 7. Deng, X. et al. (2001) <i>J Biol Chem</i> 276, 23681-8.						
Species Reactiv	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	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 FC-FP: Flow Cytometry (Fixed/Permeabilized)						
Cross-Reactivit	ty Key	H: Human						
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