

#2827 Store at -20C

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



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, FC-FP	H	Endogenous	28	Rabbit IgG	#P10415	596

<b>Product Usage Information</b>	<b>Application</b> Western Blotting Flow Cytometry (Fixed/Permeabilized)	<b>Dilution</b> 1:1000 1:100 - 1:400
<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>	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.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding serine 70 of human Bcl-2.	
<b>Background</b>	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).	
<b>Background References</b>	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.	

<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>WB:</b> Western Blotting <b>FC-FP:</b> Flow Cytometry (Fixed/Permeabilized)
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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