

Store at
-20°C

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

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#2827

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Entrez-Gene ID #596
UniProt ID #P10415

rev. 12/30/15

For Research Use Only. Not For Use In Diagnostic Procedures.
Applications
W, IF-IC, F
Endogenous

Species Cross-Reactivity*
H

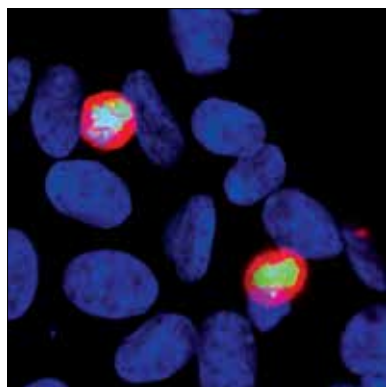
Molecular Wt.
28 kDa

Isotype
Rabbit IgG**

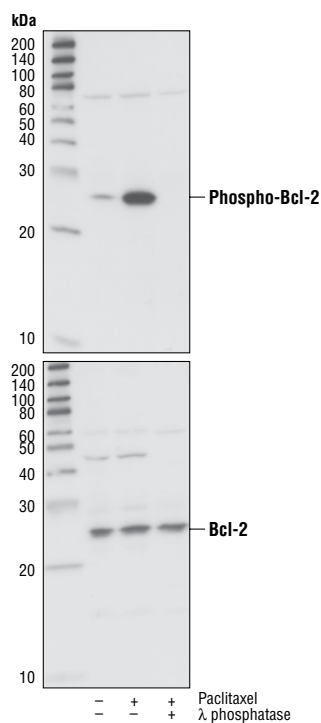
Background: Bcl-2 exerts a survival function in response to a wide range of apoptotic stimuli through inhibition of mitochondrial cytochrome c release (1). It has been implicated in modulating mitochondrial calcium homeostasis and proton flux (2). Several phosphorylation sites have been identified within 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).

Specificity/Sensitivity: 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/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding serine 70 of human Bcl-2.



Confocal immunofluorescent analysis of SH-SY5Y cells using Phospho-Bcl-2 (Ser70) (5H2) Rabbit mAb (red) and Phospho-Histone H3 (Ser10) (6G3) Mouse mAb #9706 (green). Blue pseudocolor = DRAQ5® #4084 (fluorescent DNA dye).



Western blot analysis of extracts from Jurkat cells, untreated or treated with paclitaxel (1 μ M, overnight) and with or without λ phosphatase, using Phospho-Bcl-2 (Ser70) (5H2) Rabbit mAb (upper) or Bcl-2 #2876 (lower).

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C . Do not aliquot the antibody.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

| | |
|----------------------------|--------|
| Western blotting | 1:1000 |
| Immunofluorescence (IF-IC) | 1:200 |
| Flow Cytometry | 1:800 |

For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com

Background References:

- (1) Murphy, K.M. et al. (2000) *Cell Death Differ* 7, 102-11.
- (2) Zhu, L. et al. (1999) *J Biol Chem* 274, 33267-73.
- (3) Maundrell, K. et al. (1997) *J Biol Chem* 272, 25238-42.
- (4) Yamamoto, K. et al. (1999) *Mol Cell Biol* 19, 8469-78.
- (5) Ling, Y.H. et al. (1998) *J Biol Chem* 273, 18984-91.
- (6) Huang, S.T. and Cidlowski, J.A. (2002) *FASEB J* 16, 825-32.
- (7) Deng, X. et al. (2001) *J Biol Chem* 276, 23681-8.

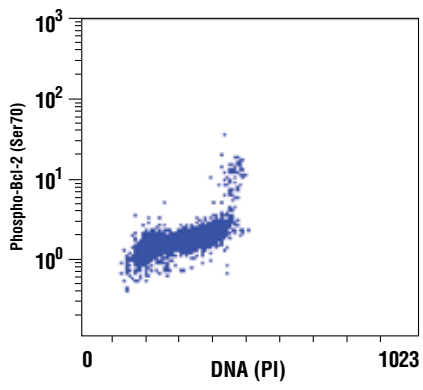
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IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.

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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide Species Cross-Reactivity: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.



Flow cytometric analysis of Jurkat cells, using Phospho-Bcl-2 (Ser70) (5H2) Rabbit mAb versus propidium iodide (DNA content).