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

**Applications**
- Western
- IF-IC
- F

**Species Cross-Reactivity**
- H

**Molecular Wt.**
- 28 kDa

**Isotype**
- Rabbit IgG

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**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.

**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.

*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:**

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

**Confocal immunofluorescent analysis of SH-SYSY 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).**

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

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Flow cytometric analysis of Jurkat cells, using Phospho-Bcl-2 (Ser70) (SH2) Rabbit mAb versus propidium iodide (DNA content).