


Store at -20C  #3498	Bcl-2 (D17C4) Rabbit mAb	
		<b>Orders:</b> 877-616-CELL (2355) orders@cellsignal.com
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H M	Endogenous	26	Rabbit IgG	#P10417	12043

#### Product Usage Information

#### Application

Western Blotting  
Immunoprecipitation

#### Dilution

1:1000  
1:100

#### 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.

#### Specificity/Sensitivity

Bcl-2 (D17C4) Rabbit mAb detects endogenous levels of total Bcl-2 protein.

#### Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly41 of mouse 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 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 **IP:** Immunoprecipitation

#### Cross-Reactivity Key

**H:** Human **M:** Mouse

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