Bcl-2 Antibody

For Research Use Only. Not For Use In Diagnostic Procedures.

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<th>Applications:</th>
<th>Reactivity:</th>
<th>Sensitivity:</th>
<th>MW (kDa):</th>
<th>Source:</th>
<th>UniProt ID:</th>
<th>Entrez-Gene Id:</th>
</tr>
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<td>WB</td>
<td>H M R</td>
<td>Endogenous</td>
<td>28</td>
<td>Rabbit</td>
<td>P10415</td>
<td>596</td>
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</table>

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

**Specificity / Sensitivity**

Bcl-2 Antibody detects endogenous levels of total Bcl-2 alpha protein. This antibody does not cross-react with Bcl-2 beta or other Bcl-2 family members.

**Species Reactivity:** Human, Mouse, Rat

**Source / Purification**

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the carboxy-terminus of Bcl-2 alpha. Antibodies are purified by protein A and peptide affinity chromatography.

**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).


**APPLICATIONS KEY**


**CROSS-REACTIVITY KEY**


**IMPORTANT:** For primary antibodies recommended for western blotting applications, we recommend incubating the membrane with diluted antibody at 4°C with gentle shaking overnight. Please refer to the western blot protocol found on the product web page for the antibody-specific diluent recommendation.

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