**BACKGROUND**

Bcl-2 is one among many key regulators of apoptosis, which are essential for proper development, tissue homeostasis, and protection against foreign pathogens. Human Bcl-2 is an anti-apoptotic, membrane-associated oncoprotein that can promote cell survival through protein-protein interactions with other Bcl-2 related family members, such as the death suppressors Bcl-xL, Mcl-1, Bcl-w, and A1 or the death agonists Bax, Bak, Bik, Bad, and Bid. The anti-apoptotic function of Bcl-2 can also be regulated through proteolytic processing and phospho-rylation. Bcl-2 may promote cell survival by interfering with the activation of the cytochrome c/Apaf-1 pathway through stabilization of the mitochondrial membrane. Mutations in the Bcl-2 gene can contribute to cancers where normal physiological cell death mechanisms are compromised by deregulation of the anti-apoptotic influence of Bcl-2.

**CHROMOSOMAL LOCATION**

Genetic locus: BCL2 (human) mapping to 18q21.33

**SOURCE**

Bcl-2 (100) is a mouse monoclonal antibody raised against a synthetic peptide corresponding to aa 41-54 of human Bcl-2.

**PRODUCT**

Each vial contains 200 µg IgG1 in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Available as agarose conjugate for immunoprecipitation, sc-509 AC, 500 µg/1 ml; as HRP conjugate for Western blotting, sc-509 HRP, 200 µg/1 ml; as fluorescein (sc-509 FITC) or rhodamine (sc-509 TRITC) conjugates for immunofluorescence, 200 µg/1 ml; as phycoerythrin (sc-509 PE), fluorescein (sc-509 FITC), PerCP (sc-509 PerCP) or PerCP-Cy5.5 (sc-509 PCPC5) conjugates for flow cytometry, 100 tests; as Alexa Fluor® 405 (sc-509 AF405), Alexa Fluor® 488 (sc-509 AF488) or Alexa Fluor® 647 (sc-509 AF647) conjugates for flow cytometry or immunofluorescence; 100 µg/2 ml.

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**APPLICATIONS**

Bcl-2 (100) is recommended for detection of Bcl-2 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 µg per 1 x 10⁶ cells).

Suitable for use as control antibody for Bcl-2 siRNA (h): sc-29214, Bcl-2 shRNA Plasmid (h): sc-29214-SH and Bcl-2 shRNA (h) Lentiviral Particles: sc-29214-V.

Molecular Weight of Bcl-2: 26 kDa.

Positive Controls: Bcl-2 (h): 293T Lysate: sc-176463.

**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

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**Santa Cruz Biotechnology, Inc.**

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