**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 phosphorylation. 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; Bcl2 (mouse) mapping to 1 E2.1.

**SOURCE**

Bcl-2 (C-2) is a mouse monoclonal antibody raised against amino acids 1-205 of Bcl-2 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.01% gelatin.

Bcl-2 (C-2) is available conjugated to agarose (sc-7382 AC), 500 µg/0.25 ml agarose in 1 ml, for iP; to HRP (sc-7382 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-7382 PE), fluorescein (sc-7382 FITC), Alexa Fluor® 488 (sc-7382 AF488), Alexa Fluor® 546 (sc-7382 AF546), Alexa Fluor® 594 (sc-7382 AF594) or Alexa Fluor® 647 (sc-7382 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-7382 AF680) or Alexa Fluor® 790 (sc-7382 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

In addition, Bcl-2 (C-2) is available conjugated to biotin (sc-7382 B), 200 µg/ml, for WB, IHC(P) and ELISA; and to either TRITC (sc-7382 TRITC, 200 µg/ml), PerCP (sc-7382 PerCP), PerCP-Cy5.5 (sc-7382 PCPC5) or Alexa Fluor® 405 (sc-7382 AF405), 100 tests in 2 ml, for IF, IHC(P) and FCM.

**APPLICATIONS**

Bcl-2 (C-2) is recommended for detection of Bcl-2 of mouse, rat and 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 siRNA (m): sc-29215, Bcl-2 shRNA Plasmid (h): sc-29214-SH, Bcl-2 shRNA Plasmid (m): sc-29215-SH, Bcl-2 shRNA (h) Lentiviral Particles: sc-29214-V and Bcl-2 shRNA (m) Lentiviral Particles: sc-29215-V.

**MOLECULAR WEIGHT**

Molecular Weight of Bcl-2: 26 kDa.

**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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