**Bcl-xS/L (D-3): sc-271121**

**BACKGROUND**

The Bcl-2 gene was isolated at the chromosomal breakpoint of t(14;18) bearing follicular B cell lymphomas. Bcl-2 blocks cell death following a variety of stimuli and confers a death-sparing effect to certain hematopoietic cell lines following growth factor withdrawal. A second protein, designated Bcl-associated X protein (Bax) p21, has extensive amino acid homology with Bcl-2 and both homodimerizes and heterodimerizes with Bcl-2. Overexpression of Bax accelerates apoptotic death induced by cytokine deprivation in an IL-3-dependent cell line, and Bax also counters the death repressor activity of Bcl-2. Bcl-x, one of several additional proteins with sequence homology to Bcl-2, is expressed as Bcl-xL, a 233 amino acid protein with 43% sequence identity with Bcl-2 that suppresses cell death, and Bcl-xS, a shorter variant that is 178 amino acids in length and lacks a 63 amino acid region (amino acids 126-188) found in Bcl-xL, which functions as a dominant inhibitor of Bcl-2. A further apoptosis-inducing protein, Bad, dimerizes both with Bcl-xS and to a lesser extent with Bcl-2, thus displacing Bax and inducing apoptosis.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: BCL2L1 (human) mapping to 20q11.21; Bcl2l1 (mouse) mapping to 2 and 2H1.

**SOURCE**

Bcl-xS/L (D-3) is a mouse monoclonal antibody raised against amino acids 1-125 mapping at the N-terminus of Bcl-xS/L of mouse origin.

**PRODUCT**

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

Bcl-xS/L (D-3) is available conjugated to agarose (sc-271121 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-271121 PE), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-271121 PE), fluorescein (sc-271121 FITC), Alexa Fluor® 488 (sc-271121 AF488), Alexa Fluor® 546 (sc-271121 AF546), Alexa Fluor® 594 (sc-271121 AF594) or Alexa Fluor® 647 (sc-271121 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FM; and to either Alexa Fluor® 680 (sc-271121 AF680) or Alexa Fluor® 790 (sc-271121 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FM.

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**STORAGE**

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

**APPLICATIONS**

Bcl-xS/L (D-3) is recommended for detection of Bcl-xS and Bcl-xL of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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 solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Bcl-xS/L siRNA (h): sc-29217, Bcl-xS/L shRNA Plasmid (h): sc-29216-SH, Bcl-xL shRNA Plasmid (m): sc-29217-5H, Bcl-xL shRNA (h) Lentiviral Particles: sc-29216-V and Bcl-xS/L shRNA (m) Lentiviral Particles: sc-29217-V.

Molecular Weight of Bcl-xS/L: 30/18 kDa.

Positive Controls: BJAB whole cell lysate: sc-2207, SW480 cell lysate: sc-2219 or Bcl-x (h): 293T Lysate: sc-159338.

**DATA**

<Image>

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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

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