

Bax (B-9): sc-7480

BACKGROUND

The Bcl-2 gene was isolated at the chromosomal breakpoint of τ -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. Bcl-2 is localized to outer mitochondrial membranes and endoplasmic reticulum as well as nuclear membranes. A related protein, designated Bax p21 (for Bcl-associated X protein), has extensive amino acid homology with Bcl-2 and both homodimerizes and forms heterodimers 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.

CHROMOSOMAL LOCATION

Genetic locus: BAX (human) mapping to 19q13.33; Bax (mouse) mapping to 7 B4.

SOURCE

Bax (B-9) is a mouse monoclonal antibody raised against amino acids 1-171 of Bax α of mouse origin.

PRODUCT

Each vial contains 200 μ g IgG_{2b} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Bax (B-9) is available conjugated to agarose (sc-7480 AC), 500 μ g/0.25 ml agarose in 1 ml, for IP; to either phycoerythrin (sc-7480 PE), fluorescein (sc-7480 FITC), Alexa Fluor[®] 488 (sc-7480 AF488), Alexa Fluor[®] 546 (sc-7480 AF546), Alexa Fluor[®] 594 (sc-7480 AF594) or Alexa Fluor[®] 647 (sc-7480 AF647), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-7480 AF680) or Alexa Fluor[®] 790 (sc-7480 AF790), 200 μ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

In addition, Bax (B-9) is available conjugated to either TRITC (sc-7480 TRITC, 200 μ g/ml), PerCP (sc-7480 PerCP), PerCP-Cy5.5 (sc-7480 PCPC5) or Alexa Fluor[®] 405 (sc-7480 AF405), 100 tests in 2 ml, for IF, IHC(P) and FCM.

APPLICATIONS

Bax (B-9) is recommended for detection of Bax α and Bax β of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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 μ g per 1 x 10⁶ cells).

Suitable for use as control antibody for Bax siRNA (h): sc-29212, Bax siRNA (m): sc-29213, Bax shRNA Plasmid (h): sc-29212-SH, Bax shRNA Plasmid (m): sc-29213-SH, Bax shRNA (h) Lentiviral Particles: sc-29212-V and Bax shRNA (m) Lentiviral Particles: sc-29213-V.

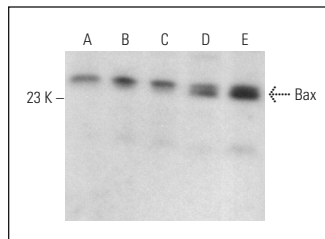
Molecular Weight of Bax: 23 kDa.

Positive Controls: Raji whole cell lysate: sc-364236, NAMALWA cell lysate: sc-2234 or Jurkat whole cell lysate: sc-2204.

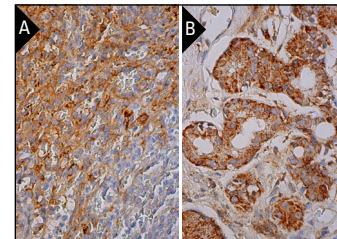
STORAGE

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

DATA



Bax (B-9): sc-7480. Western blot analysis of Bax expression in Jurkat (A), Raji (B), NAMALWA (C), MM-142 (D) and RAW 264.7 (E) whole cell lysates.



Bax (B-9): sc-7480. Immunoperoxidase staining of formalin fixed, paraffin-embedded human spleen tissue showing cytoplasmic staining of cells in red pulp (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human salivary gland tissue showing cytoplasmic staining of glandular cells (B).

SELECT PRODUCT CITATIONS

- Karlseder, J., et al. 1999. p53 and ATM-dependent apoptosis induced by telomeres lacking TRF2. *Science* 283: 1321-1325.
- Moriishi, K., et al. 1999. Bcl-2 family members do not inhibit apoptosis by binding the caspase activator Apaf-1. *Proc. Natl. Acad. Sci. USA* 96: 9683-9688.
- Dhanabal, M., et al. 1999. Endostatin induces endothelial cell apoptosis. *J. Biol. Chem.* 274: 11721-11726.
- Long, D., et al. 2018. RNAi targeting STMN alleviates the resistance to taxol and collectively contributes to down regulate the malignancy of NSCLC cells *in vitro* and *in vivo*. *Cell Biol. Toxicol.* 34: 7-21.
- Abuyassin, B., et al. 2018. Intermittent hypoxia causes histological kidney damage and increases growth factor expression in a mouse model of obstructive sleep apnea. *PLoS ONE* 13: e0192084.
- Li, D., et al. 2018. Eriodictyol attenuates myocardial ischemia-reperfusion injury through the activation of JAK2. *Front. Pharmacol.* 9: 33.
- Yao, W., et al. 2018. IRE1 α siRNA relieves endoplasmic reticulum stress-induced apoptosis and alleviates diabetic peripheral neuropathy *in vivo* and *in vitro*. *Sci. Rep.* 8: 2579.
- Yun, J., et al. 2018. IL-32 γ reduces lung tumor development through upregulation of TIMP-3 overexpression and hypomethylation. *Cell Death Dis.* 9: 306.
- Kanda, K., et al. 2018. Nardilysin controls intestinal tumorigenesis through HDAC1/p53-dependent transcriptional regulation. *JCI Insight* 3 pii: 91316.

RESEARCH USE

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

Alexa Fluor[®] is a trademark of Molecular Probes, Inc., Oregon, USA