

# Bax (N-20): sc-493

## BACKGROUND

The Bcl-2 gene was isolated at the chromosomal breakpoint of t-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 (N-20) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the N-terminus of Bax of human origin.

## PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Bax (N-20) is available conjugated to agarose (sc-493 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; and to HRP (sc-493 HRP), 200 µg/ml, for WB, IHC(P) and ELISA.

Blocking peptide available for competition studies, sc-493 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

## APPLICATIONS

Bax (N-20) is recommended for detection of Bax  $\alpha$ , Bax  $\beta$  and Bax  $\delta$  of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Bax (N-20) is also recommended for detection of Bax  $\alpha$ , Bax  $\beta$  and Bax  $\delta$  in additional species, including equine, canine, bovine and porcine.

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: COLO 320DM cell lysate: sc-2226, CCRF-CEM cell lysate: sc-2225 or Ramos cell lysate: sc-2216.

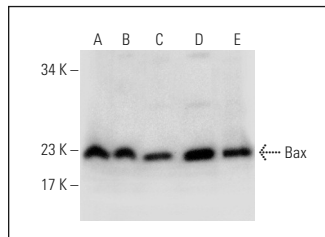
## RESEARCH USE

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

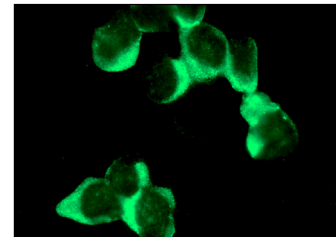
## STORAGE

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

## DATA



Bax (N-20): sc-493. Western blot analysis of Bax expression in COLO 320DM (A), CCRF-CEM (B), HuT 78 (C), Ramos (D) and MDA-MB-231 (E) whole cell lysates.



Bax (N-20): sc-493. Immunofluorescence staining of methanol-fixed Jurkat cells showing cytoplasmic localization.

## SELECT PRODUCT CITATIONS

1. Elstner, E., et al. 1998. Ligands for peroxisome proliferator-activated receptor  $\gamma$  and retinoic acid receptor inhibit growth and induce apoptosis of human breast cancer cells *in vitro* and in BNX mice. *Proc. Natl. Acad. Sci. USA* 95: 8806-8811.
2. Shah, K. and Bradbury, N.A. 2015. Lemur tyrosine kinase 2, a novel target in prostate cancer therapy. *Oncotarget* 6: 14233-14246.
3. Hwang, K.Y. and Choi, Y.B. 2015. Modulation of mitochondrial antiviral signaling by human herpesvirus 8 interferon regulatory factor 1. *J. Virol.* 90: 506-520.
4. Upadhyay, A., et al. 2015. Ibuprofen induces mitochondrial-mediated apoptosis through proteasomal dysfunction. *Mol. Neurobiol.* E-published.
5. Hong, C.F., et al. 2016. MicroRNA-7 compromises p53 protein-dependent apoptosis by controlling the expression of the chromatin remodeling factor SMARCD1. *J. Biol. Chem.* 291: 1877-1889.
6. García, C.P., et al. 2016. Human pluripotent stem cells and derived neuroprogenitors display differential degrees of susceptibility to BH3 mimetics ABT-263, WEHI-539 and ABT-199. *PLoS ONE* 11: e0152607.
7. Abán, C., et al. 2016. Endocannabinoids participate in placental apoptosis induced by hypoxia inducible factor-1. *Apoptosis* 21: 1094-1105.
8. Pérez-Pérez, A., et al. 2016. Leptin reduces apoptosis triggered by high temperature in human placental villous explants: the role of the p53 pathway. *Placenta* 42: 106-113.



Try **Bax (B-9): sc-7480** or **Bax (2D2): sc-20067**, our highly recommended monoclonal alternatives to Bax (N-20). Also, for AC, HRP, FITC, PE, Alexa Fluor<sup>®</sup> 488 and Alexa Fluor<sup>®</sup> 647 conjugates, see **Bax (B-9): sc-7480**.