SANTA CRUZ BIOTECHNOLOGY, INC.

Bax (6D150): sc-70408

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

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.

REFERENCES

1. Bakhshi, A., et al. 1985. Cloning the chromosomal breakpoint of t(14;18) human lymphomas: clustering around JH on chromosome 14 and near a transcriptional unit on 18. Cell 41: 899-906.
2. Vaux, D.L., et al. 1988. Bcl-2 promotes the survival of haemopoietic cells and cooperates with c-Myc to immortalize pre-B cells. Nature 335: 440-442.

CHROMOSOMAL LOCATION

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

SOURCE

Bax (6D150) is a mouse monoclonal antibody raised against the N-terminal residues 12-24 common to human, mouse and rat Bax protein.

PRODUCT

Each vial contains 200 µg IgG_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Bax (6D150) is recommended for detection of Bax 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) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

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: Bax (m): 293T Lysate: sc-126476, RAW 264.7 whole cell lysate: sc-2211 or HuT 78 whole cell lysate: sc-2208.

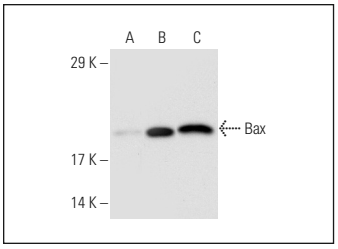
STORAGE

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

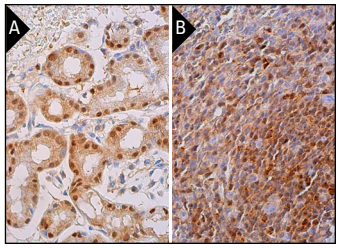
RESEARCH USE

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

DATA



Bax (6D150): sc-70408. Western blot analysis of Bax expression in non-transfected 293T: sc-117752 (**A**), mouse Bax transfected 293T: sc-126476 (**B**) and HuT 78 (**C**) whole cell lysates.



Bax (6D150): sc-70408. Immunoperoxidase staining of formalin fixed, paraffin-embedded human salivary gland tissue showing cytoplasmic and nuclear staining of glandular cells (**A**) and human spleen tissue showing cytoplasmic and nuclear staining of cells in white pulp and cells in red pulp (**B**).

SELECT PRODUCT CITATIONS

1. Bonior, J., et al. 2007. Endotoxemia in the infant rats modulates HSP60 protein level in the pancreatic acinar cells. J. Physiol. Pharmacol. 58: 189-198.
2. Meena, R., et al. 2012. Nano-TiO2-induced apoptosis by oxidative stress-mediated DNA damage and activation of p53 in human embryonic kidney cells. Appl. Biochem. Biotechnol. 167: 791-808.
3. Yadav, V.R., et al. 2013. Preclinical evaluation of 4-[3,5-bis(2-chlorobenzylidene)-4-oxo-piperidine-1-yl]-4-oxo-2-butenoic acid, in a mouse model of lung cancer xenograft. Br. J. Pharmacol. 170: 1436-1448.
4. Anand, T., et al. 2014. Anti-apoptotic mechanism of Bacoside rich extract against reactive nitrogen species induced activation of iNOS/Bax/caspase 3 mediated apoptosis in L132 cell line. Cytotechnology 66: 823-838.
5. De Francesco, E.M., et al. 2017. Protective role of GPER agonist g-1 on cardiotoxicity induced by doxorubicin. J. Cell. Physiol. 232: 1640-1649.
6. Lu, W., et al. 2018. Fordin: a novel type I ribosome inactivating protein from Vernicia fordii modulates multiple signaling cascades leading to anti-invasive and pro-apoptotic effects in cancer cells *in vitro*. Int. J. Oncol. 53: 1027-1042.
7. Arnal, N., et al. 2019. Pro-apoptotic effects of low doses of dimethoate in rat brain. Toxicol. Appl. Pharmacol. 363: 57-63.
8. Ismail, R.S., et al. 2020. Pantoprazole abrogated cisplatin-induced nephrotoxicity in mice via suppression of inflammation, apoptosis, and oxidative stress. Naunyn Schmiedebergs Arch. Pharmacol. 393: 1161-1171.

CONJUGATES

See **Bax (B-9): sc-7480** for Bax antibody conjugates, including AC, HRP, FITC, PE, and Alexa Fluor® 488, 546, 594, 647, 680 and 790.