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Product Data Sheet

Purified anti-Bax

Catalog # / Size: 633701 / 25 µg
633702 / 100 µg

Clone: 5B7

Isotype: Mouse IgG1, κ

Immunogen: Amino acids: 8-16 of murine Bax protein

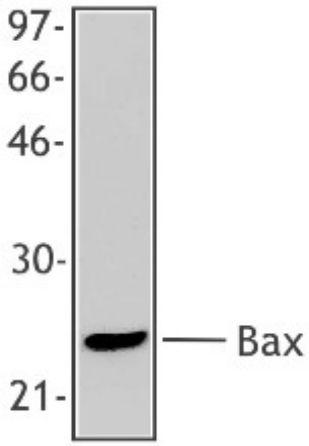
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography.

Formulation: This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide at 0.5 mg/ml.

Concentration: 0.5 mg/ml

Storage: Upon receipt, store undiluted at at 4°C.



Western blot analysis of extracts from NIH3T3 cells using anti-Bax, clone 5B7.

Applications:

Applications: WB-*Quality tested*
IP - *Reported in the literature*

Recommended Usage: Each lot of this antibody is quality control tested by Western blotting. For Western blotting, suggested working dilution(s): Use 5 µg per 5 ml antibody dilution buffer for each mini-gel. For immunofluorescence microscopy: Use a dilution range of 1~4 µg/ml. It is recommended that the reagent be titrated for optimal performance for each application.>

Application References: 1. Hsu YT, et al. 1997. *J. Biol. Chem.* 272:13829.

Description: Bax is a 21 kD pro-apoptotic protein known to regulate apoptosis. Bax is found in the cytoplasm, mitochondria, and nucleus and is highly expressed in hematopoietic stem cells, the ovary, and in the lymph node. Bax binds the anti-apoptotic protein Bcl-2 as a heterodimer or forms homodimers. The relative levels of pro-apoptotic proteins such as Bax and anti-apoptotic proteins such as Bcl-2 determines whether cell death will occur following an apoptotic stimulus. Bax accelerates the opening of mitochondrial VDAC altering membrane potential and allowing cytochrome c to pass out of the mitochondria into the cytosol to initiate downstream caspase activation. p53 can transcriptionally activate the Bax gene to induce apoptosis. Bax has been shown to be mutated in some human cancers. Clone 5B7 has been shown to be useful for western blotting and immunoprecipitation of the mouse Bax protein.This antibody does not cross-react with Bcl-2 or Bcl-X_L proteins.

Antigen References:
1. LeBlanc H, *et al.* 2002. *Nat. Med.* 8:274.
2. Marzo I, *et al.* 1998. *Science* 281:2027.
3. Miyashita T *et al.* 1995. *Cell* 80:293.
4. Oltvai ZN, *et al.* 1993. *Cell* 74:609.

Related Products:

Product	Clone	Application
AKP Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	ELISA, WB, IHC
HRP Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	ELISA, IHC, WB

BioLegend Inc., 9727 Pacific Heights Blvd, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587