



CELL LAB Mouse Anti-Mouse Bax

Cat. No.	Form	Quantity
731729	Purified (UNLB) Antibody	0.1 mg

For Laboratory Use Only

DESCRIPTION

Clone:	5B7
Immunogen:	KLH-conjugated peptide corresponding to amino acids 3-16 near the N-terminus of murine Bax ¹
Isotype:	Mouse IgG1
Specificity:	Mouse Bax (Mr 21 kDa)

Apoptosis is a well-documented phenomenon in many cellular systems.² It plays a key role in tissue and organ development as well as in adult tissues during cell turnover. Apoptosis can be induced by a variety of internal and external stimuli including growth factor deprivation, cytokine treatment, antigen-receptor engagement, cell-cell interactions, irradiation and glucocorticoid treatment.³ Bax is a member of the Bcl-2 family of apoptosis-associated proteins and, although it is similar in structure to Bcl-2, Bax exerts a pro-apoptotic rather than an anti-apoptotic effect on cells. Bax targets mitochondrial membranes, inducing mitochondrial damage and subsequent cell death in a caspase-independent manner, presumably via their ion channel-forming activity. These channels may then function to promote a mitochondrial permeability transition or to puncture the outer mitochondrial membrane. In addition to forming homodimer, Bax can heterodimerize with Bcl-2 and Bcl-X_L proteins. This heterodimerization between pro- and anti-apoptotic family members may serve a titration function and act as a sensor for the programmed cell death program.⁴⁻¹² Monoclonal antibody (Mab) 5B7 is specific for mouse Bax.¹

APPLICATIONS

- Immunoprecipitation
- Western blotting
- Enzyme-Linked Immunosorbent Assay (ELISA)

CHARACTERIZATION

To ensure lot-to-lot consistency, each batch of product is tested to conform with characteristics of a standard reference reagent using immunoassay.

WORKING DILUTIONS

Western Blotting: Purified antibody $\leq 1 \mu\text{g/mL}$

Other Applications: Since applications vary, determine the optimum working dilution of the product that is appropriate for your specific needs.

HANDLING AND STORAGE

- The purified (UNLB) antibody is supplied as 0.1 mg of purified immunoglobulin in 1.0 mL of 100 mM borate buffered saline, pH 8.0. No preservatives or amine-containing buffer salts added.
- Reagent is stable until the expiration date on the vial when stored at 2-8°C.

STATEMENT OF WARNINGS

1. Specimens, samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
2. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
3. Do not use reagent beyond the expiration date on the vial label.
4. Avoid microbial contamination of reagent or erroneous results may occur.
5. Use Good Laboratory Practice (GLP) when handling this reagent.

TRADEMARKS

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For additional information or if damaged product is received, contact your local Beckman Coulter Representative.

REFERENCES

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