



Mouse Anti-Mouse Bax

Cat. No.	Format	Size
10050-01	Purified (UNLB)	0.1 mg

Overview

Clone	5B7
Isotype	Mouse IgG ₁ κ
Immunogen	Murine Bax peptide (a.a. 3-16)
Specificity	Mouse Bax
Alternate Name(s)	Apoptosis regulator BAX, BCL2 associated X protein

Description

Bax is a 20-22 kDa member of the Bcl-2 family of proteins involved in regulation of programmed cell death, or apoptosis. In murine thymocytes it is expressed primarily as a cytoplasmic protein. Over-expression of Bax promotes apoptosis by formation of homodimers and through heterodimerization with Bcl-2, an inhibitor of apoptosis. The monoclonal antibody 5B7 recognizes both native and activated forms of Bax as well as Bax-Bcl-2 and Bax-Bcl-x_L heterodimers.

Applications

WB – Quality tested ^{1-3,5}
 IP – Reported in literature ^{1,3,5}
 FC – Reported in literature ⁴
 ICC – Reported in literature ⁴
 Purification – Reported in literature ⁵

Working Dilutions

Immunoblotting	Purified (UNLB) antibody	≤ 2 µg/mL
Other Applications	Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.	

Handling and Storage

- The purified (UNLB) antibody is supplied as 0.1 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added.* Store at 2-8°C.
- Reagent is stable for the period shown on the label if stored as directed.

References

- Hsu Y, Youle RJ. Nonionic detergents induce dimerization among members of the Bcl-2 family. J Biol Chem. 1997;272:13829-34. (Immunogen, WB, IP)
- Hsu Y, Wolter KG, Youle RJ. Cytosol-to-membrane redistribution of Bax and Bcl-x_L during apoptosis. Proc Natl Acad Sci USA. 1997;94:3668-72. (WB)
- Havasi A, Li Z, Wang Z, Martin JL, Botla V, Ruchalski K, et al. Hsp27 inhibits Bax activation and apoptosis via a phosphatidylinositol 3-kinase-dependent mechanism. J Biol Chem. 2008;283:12305-13. (WB, IP)
- Halicka HD, Smolewski P, Darzynkiewicz Z, Dai W, Traganos F. Arsenic trioxide arrests cells early in mitosis leading to apoptosis. Cell Cycle. 2002;1:200-8. (FC, ICC)
- Hsu Y, Youle RJ. Bax in murine thymus is a soluble monomeric protein that displays differential detergent-induced conformations. J Biol Chem. 1998;273:10777-83. (WB, IP, Purification)

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TB10050
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