

**Bax Rabbit Monoclonal Antibody  
Product Data Sheet**

**Catalog #1063-1**

Clone ID: E63      Lot #: *please refer to the vial*  
Quantity: 100 µl  
Type: Rabbit Monoclonal IgG  
Species Cross-reactivity:  Human  Mouse  Rat  
Applications:  WB  IHC  ICC  Flow Cytometry  IP  
Molecular Wt.: 21 kDa  
UniProt ID: Q07814

**Background:** Bax is a pro-apoptotic member of the Bcl-2 family of proteins. During mitochondria-regulated programmed cell death, Bax promotes apoptosis by binding Bcl-2 (Cat # 1017-1) and inhibiting its anti-apoptotic function (1). Upon apoptotic stimulation, Bax translocates from the cytosol to the mitochondrial membrane (2). Through interactions with mitochondrial membrane proteins, Bax increases the membrane's permeability, leading to the release of cytochrome c from mitochondria and initiation of the apoptotic caspase cascade (2,3).

**Specificity:** A synthetic peptide corresponding to residues in the vicinity of the dimerization domain of human Bax was used as immunogen. The antibody should recognize cytoplasmic isoform beta, delta, and membrane isoform alpha of Bax. The antibody does not cross-react with other Bcl-2 family members. Predicted to cross-react with bovine based on sequence homology.

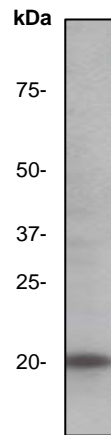
**Storage Conditions:** Store at -20 °C. Buffer: 50 mM Tris-Glycine (pH 7.4), 0.15 M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.

**Recommended Dilutions:**

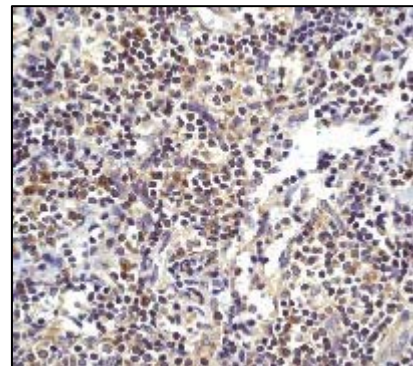
WB: 1:1,000 - 2,000  
IHC: 1:250  
IP: 1:100

**Background References:**

1. Oltvai, Z.N., et al. Bcl-2 heterodimerizes in vivo with a conserved homolog, Bax, that accelerates programmed cell death. *Cell* 74: 609–19 (1993).
2. Jurgensmeier, J.M., et al. Bax directly induces release of cytochrome c from isolated mitochondria. *Proc. Natl. Acad. Sci. USA* 95: 4997–5002 (1998).
3. Narita, M., et al. Bax interacts with the permeability transition pore to induce permeability transition and cytochrome c release in isolated mitochondria. *Proc. Natl. Acad. Sci. USA* 95: 14681–14686 (1998).



**Fig 1.** Western blot analysis on HeLa cell lysate using anti-Bax RabMAb (cat. #1063-1), 1:2,000 dilution.



**Fig 2.** Immunohistochemical analysis of paraffin-embedded human lymph node using anti-Bax RabMAb (cat. #1063-1).

Product QC'd by: \_\_\_\_\_

**For research use only. Not for use in diagnostic or therapeutic applications.**

*This product was manufactured under U.S. Patent No. 5,675,063. For a complete list of protocols and available related products, please visit [www.epitomics.com](http://www.epitomics.com).*