

Bax Antibody

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For Research Use Only. Not For Use In Diagnostic Procedures.

Applications W, IP Endogenous	Species Cross-Reactivity* H, M, R, Mk	Molecular Wt. 20 kDa	Source Rabbit**
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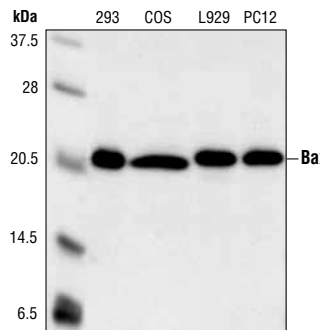
Background: Bax is a key component for cellular induced apoptosis through mitochondrial stress (1). Upon apoptotic stimulation, Bax forms oligomers and translocates from the cytosol to the mitochondrial membrane (2). Through interactions with pore proteins on the mitochondrial membrane, Bax increases the membrane's permeability, which leads to the release of cytochrome c from mitochondria, activation of caspase-9 and initiation of the caspase activation pathway for apoptosis (3,4).

Specificity/Sensitivity: Bax Antibody detects endogenous levels of total Bax protein. The antibody does not cross-react with other Bcl-2 family members.

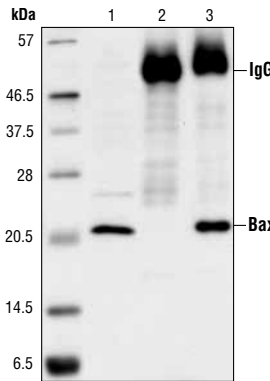
Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide (KLH-coupled) corresponding to the amino-terminal residues of human Bax. Antibodies are purified by protein A and peptide affinity chromatography.

Background References:

- (1) Wei, M.C. et al. (2001) *Science* 292, 727–730.
- (2) Jurgensmeier, J.M. et al. (1998) *Proc. Natl. Acad. Sci. USA* 95, 4997–5002.
- (3) Narita, M. et al. (1998) *Proc. Natl. Acad. Sci. USA* 95, 14681–14686.
- (4) Marzo, I. et al. (1998) *Science* 281, 2027–2031.



Western blot analysis of extracts from 293 (human), COS (monkey), L929 (mouse) and PC12 (rat) cells, using Bax Antibody.



Immunoprecipitation of Bax from Jurkat cell extract, using Bax Antibody. Lane 1 is the lysate control; lane 2 is antibody alone; lane 3 is antibody plus lysate.

Entrez-Gene ID #581
UniProt ID #Q07812

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

***Species cross-reactivity is determined by western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Western blotting 1:1000
Immunoprecipitation 1:50

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

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Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide
Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine
Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.