Bax Antibody

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:

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.

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.

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

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.

Entrez-Gene ID #581
UniProt ID #Q07812

Species Cross-Reactivity:

Applications | Species Cross-Reactivity* | Molecular Wt. | Source
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W, IP | H, M, R, Mk | 20 kDa | Rabbit**

Applications Key:
W—Western
IP—Immunoprecipitation
HIC—Immunohistochemistry
ChIP—Chromatin Immunoprecipitation
IF—Immunofluorescence
F—Flow cytometry
E—ELISA-Peptide

Species Cross-Reactivity Key:
H—human
M—mouse
R—rat
Hm—hamster
Mk—monkey
Mv—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.

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