#2774 Store at –20°C

Bax Antibody (Human Specific)

✓ 100 µl
(10 western blots)

Cell Signaling TECHNOLOGY®

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This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

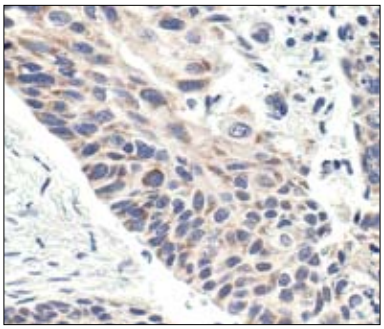
Entrez-Gene ID #581
Swiss-Prot Acc. #Q07812

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W, IP, IHC-P Endogenous	H, Mk	20 kDa	Rabbit**

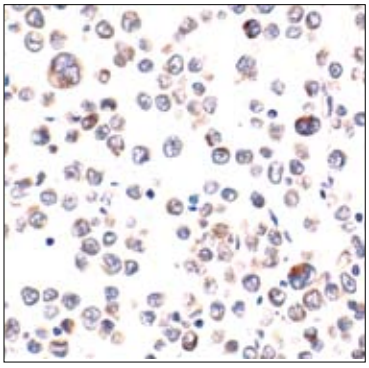
Background: Bax is a key component for cellular induced apoptosis through mitochondrial stress (1). Upon apoptotic stimulation, Bax forms oligomers and translocates from the cytosol to the mitochondrial membrane (2). Through interactions with pore proteins on the mitochondrial membrane, Bax increases 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 (human specific) detects endogenous levels of total Bax protein. Cross-reactivity was not detected with other family members at physiological conditions.

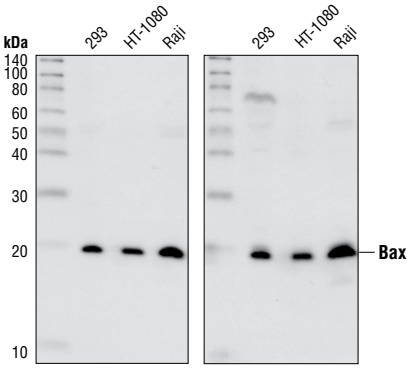
Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding lysine 58 of human Bax. Antibodies were purified by protein A and peptide affinity chromatography.



Immunohistochemical analysis of paraffin-embedded human lung carcinoma using Bax Antibody (Human Specific).



Immunohistochemical analysis of paraffin-embedded human Non-Hodgkin's lymphoma using Bax Antibody (Human Specific).



Western blot analysis of extracts from 293, HT-1080 and Raji cell lines using Bax Antibody #2772 (left) and Bax Antibody (Human Specific) #2774 (right).

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
Immunohistochemistry (Paraffin)	1:100
Unmasking buffer:	Citrate
Antibody diluent:	SignalStain® Antibody Diluent #8112

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.

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.

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.

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.

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