

#2774 Store at -20C

Bax Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IP	H Mk	Endogenous	20	Rabbit	#Q07812	581

Product Usage Information	Application Western Blotting Immunoprecipitation	Dilution 1:1000 1:50
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.	
Specificity / Sensitivity	Bax Antibody 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.	
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).	
Background References	1. Wei, M.C. et al. (2001) <i>Science</i> 292, 727-30. 2. Jürgensmeier, J.M. et al. (1998) <i>Proc Natl Acad Sci U S A</i> 95, 4997-5002. 3. Narita, M. et al. (1998) <i>Proc Natl Acad Sci U S A</i> 95, 14681-6. 4. Marzo, I. et al. (1998) <i>Science</i> 281, 2027-31.	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting IP: Immunoprecipitation
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus 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 GP: Guinea Pig Rab: rabbit All: all species expected
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