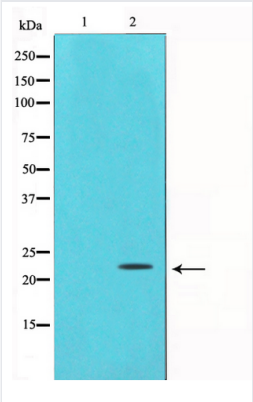
BAX Antibody

PRODUCT OVERVIEW

Product Name	Bax, Antibody
Full Product Name	Bax Antibody
Product Gene Name	anti-Bax antibody
Product Synonym Names	Apoptosis regulator BAX; BAX; Bcl-2-like protein 4; BCL2-associated X protein; Bcl2-L-4; BCL2L4
Species Reactivity	Human, Mouse, Rat
Form/Format	In phosphate buffered saline, pH 7.4, 150mM NaCl, glycerol.
Purity/Purification	Affinity-chromatography
Specificity	Bax antibody detects endogenous levels of total Bax
Preparation and Storage	Store at-20 degree C for 1 year
Molecular Weight	21kDa
OMIM	600040
3D Structure	ModBase 3D Structure for Q07812
Immunogen	A synthesized peptide derived from human Bax
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-Bax antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-Bax antibody	WB: 1:500~1:3000 IHC: 1:50~1:200 IF: 1:200
Related Product Information for anti-Bax antibody	Bax Accelerates programmed cell death by binding to, and antagonizing the apoptosis repressor BCL2 or its adenovirus homolog E1B 19k protein. Induces the release of cytochrome c, activation of CASP3, and thereby apoptosis. Belongs to the Bcl-2 family. Homodimer. Forms heterodimers with BCL2, E1B 19K protein, BCL2L1 isoform Bcl-X(L), MCL1 and A1. Interacts with SH3GLB1 and HN. Interacts with SFN and YWHAZ; the interaction occurs in the cytoplasm. Under stress conditions, JNK-mediated phosphorylation of SFN and YWHAZ, releases BAX to mitochondria. Isoform Sigma interacts with BCL2A1 and BCL2L1 isoform Bcl-X(L). 8 isoforms of the human protein are produced by alternative splicing.
Other Notes	Small volumes of anti-Bax antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Bax purchase	MBS8510615 is an antibody targeting Bax. Also known as Bax Antibody. Reactive in Human, Mouse, Rat.



Western Blot (WB) of anti-Bax antibody
Western blot analysis on HepG2 cell lysate using Bax Antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Bax. It may not necessarily be applicable to this product.

NCBI GI #	612149787
NCBI GeneID	581
NCBI Accession #	NP_001278357.1
UniProt Primary Accession #	Q07812
UniProt Secondary Accession #	P55269; Q07814; Q07815; Q8WZ49; Q9NR76; Q9NYG7; Q9UCZ6; Q9UCZ7; Q9UQD6; A8K4W1
UniProt Related Accession #	Q07812
GenBank Nucleotide #	NM_001291428.1
NCBI Official Full Name	apoptosis regulator BAX isoform 1
NCBI Official Synonym Full Names	BCL2 associated X, apoptosis regulator
NCBI Official Symbol	BAX
NCBI Official Synonym Symbols	BCL2L4
UniProt Protein Name	Apoptosis regulator BAX
UniProt Synonym Protein Names	Bcl-2-like protein 4; Bcl2-L-4
Protein Family	Apoptosis regulator
UniProt Gene Name	BAX
UniProt Synonym Gene Names	BCL2L4; Bcl2-L-4
NCBI Protein Information	apoptosis regulator BAX
NCBI Summary for Bax	The protein encoded by this gene belongs to the BCL2 protein family. BCL2 family members form hetero- or homodimers and act as anti- or pro-apoptotic regulators that are involved in a wide variety of cellular activities. This protein forms a heterodimer with BCL2, and functions as an apoptotic activator. This protein is reported to interact with, and increase the opening of, the mitochondrial voltage-dependent anion channel (VDAC), which leads to the loss in membrane potential and the release of cytochrome c. The expression of this gene is regulated by the tumor suppressor P53 and has been shown to be involved in P53-mediated apoptosis. Multiple alternatively spliced transcript variants, which encode different isoforms, have been reported for this gene. [provided by RefSeq, Jul 2008]

UniProt Comments for Bax	Plays a role in the mitochondrial apoptotic process. Under normal conditions, BAX is largely cytosolic via constant retrotranslocation from mitochondria to the cytosol mediated by BCL2L1/Bcl-xL, which avoids accumulation of toxic BAX levels at the mitochondrial outer membrane (MOM) (PubMed:21458670). Under stress conditions, undergoes a conformation change that causes translocation to the mitochondrion membrane, leading to the release of cytochrome c that then triggers apoptosis. Promotes activation of CASP3, and thereby apoptosis.
Research Articles on Bax	**1.** High mitochondrial Bax apoptosis regulator protein (BAX) levels correlate with improved acute myeloid leukemia (AML) patient survival.
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