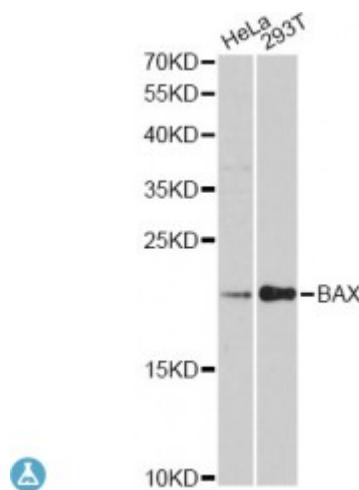


Anti-BAX Antibody



Description

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.

Model	STJ113911
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	IF, IHC, WB
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 1-100 of human BAX (NP_620116.1).
Gene ID	581
Gene Symbol	BAX
Dilution range	WB 1:500 - 1:2000 IHC 1:100 - 1:200 IF 1:50 - 1:200
Tissue Specificity	Expressed in a wide variety of tissues, Isoform Psi is found in glial tumors, Isoform Alpha is expressed in spleen, breast, ovary, testis, colon and brain,

and at low levels in skin and lung, Isoform Sigma is expressed in spleen, breast, ovary, testis, lung, colon, brain and at low levels in skin, Isoform Alpha and isoform Sigma are expressed in pro-myelocytic leukemia, histiocytic lymphoma, Burkitt's lymphoma, T-cell lymphoma, lymphoblastic leukemia, breast adenocarcinoma, ovary adenocarcinoma, prostate c

Purification

Affinity purification

Note

For Research Use Only (RUO).

Protein Name

Apoptosis regulator BAX Bcl-2-like protein 4 Bcl2-L-4

Molecular Weight

21.184 kDa

Clonality

Polyclonal

Conjugation

Unconjugated

Isotype

IgG

Formulation

PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Storage Instruction

Store at -20C. Avoid freeze / thaw cycles.

Database Links

[HGNC:959](#)[OMIM:600040](#)[Reactome:R-HSA-111457](#)

Alternative Names

Apoptosis regulator BAX Bcl-2-like protein 4 Bcl2-L-4

Function

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) , 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,

Cellular Localization

Isoform Alpha: Mitochondrion membrane

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