ARG54713
anti-Bax (BH3 Domain) antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Bax (BH3 Domain)
Tested Reactivity	Ms
Predict Reactivity	Bov
Tested Application	FACS, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Bax (BH3 Domain)
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 41-76 of Human Bax protein (NP_001278357.1).
Conjugation	Un-conjugated
Alternate Names	Bcl-2-like protein 4; Bcl2-L-4; BCL2L4; Apoptosis regulator BAX

Application Instructions

Application table

Application	Dilution
FACS	1:10 - 1:50
IHC-P	Assay-dependent
WB	1:1000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	HL-60

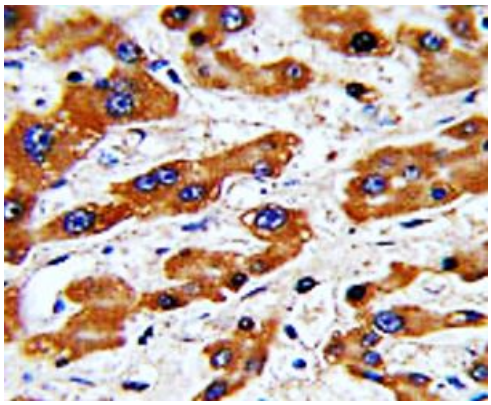
Properties

Purification	Protein G purified
Buffer	PBS and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

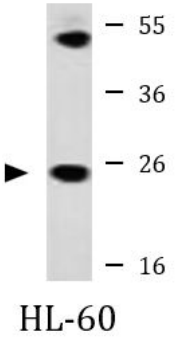
Database links	GeneID: 12028 Mouse Swiss-port # Q07813 Mouse
Gene Symbol	BAX
Gene Full Name	BCL2-associated X protein
Background	Bax belongs to the BCL2 protein family. BCL2 family members form hetero- or homodimers and act as anti- or pro-apoptotic regulators that are involved in a wide variety of cellular activities. This protein forms a heterodimer with BCL2, and functions as an apoptotic activator. The association and the ratio of BAX to BCL2 also determines survival or death of a cell following an apoptotic stimulus. 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, Dec 2019]
Function	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. [UniProt]
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Cell Death antibody; Metabolism antibody; Mitochondrial fission antibody; Apoptosis Marker antibody; Pro-apoptotic Bcl2 protein antibody
Calculated Mw	21 kDa
Cellular Localization	Isoform Alpha: Mitochondrion membrane; Single-pass membrane protein. Cytoplasm. Note=Colocalizes with 14- 3-3 proteins in the cytoplasm. Under stress conditions, undergoes a conformation change that causes release from JNK-phosphorylated 14-3-3 proteins and translocation to the mitochondrion membrane Isoform Gamma: Cytoplasm.

Images



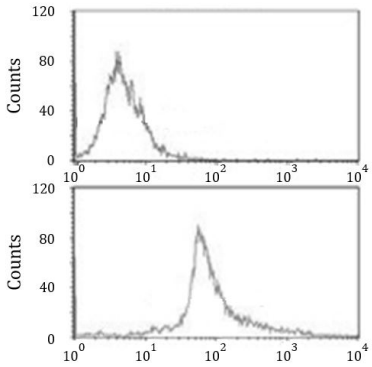
ARG54713 anti-Bax (BH3 Domain) antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human hepatocarcinoma stained with ARG54713 anti-Bax (BH3 Domain) antibody.



ARG54713 anti-Bax (BH3 Domain) antibody WB image

Western blot: 35 µg of HL-60 cell lysate stained with ARG54713 anti-Bax (BH3 Domain) antibody.



ARG54713 anti-Bax (BH3 Domain) antibody FACS image

Flow Cytometry: HepG2 cells stained with ARG54713 anti-Bax (BH3 Domain) antibody (bottom histogram) or without primary antibody control (top histogram).