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Bax Antibody (Center) Blocking peptide

Synthetic peptide
Catalog # BP18517a

Specification

Bax Antibody (Center) Blocking peptide - Product Information

Primary Accession Q07812

Bax Antibody (Center) Blocking peptide - Additional Information

Gene ID 581

Other Names
Apoptosis regulator BAX, Bcl-2-like protein 4, Bcl2-L-4, BAX, BCL2L4

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Bax Antibody (Center) Blocking peptide - Protein Information

Name BAX

Synonyms BCL2L4

Function
Plays a role in the mitochondrial apoptotic process (PubMed:10772918, PubMed:16113678, PubMed:18948948, PubMed:21199865, PubMed:21458670, PubMed:25609812, PubMed:8358790, PubMed:8521816, PubMed:11060313, PubMed:16199525, PubMed:36361894). 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 (PubMed:11060313, PubMed:16199525, PubMed:10772918, PubMed:16113678, PubMed:18948948, PubMed:21199865, PubMed:21458670, PubMed:25609812, PubMed:8358790, PubMed:8521816). Promotes activation of CASP3, and thereby apoptosis (PubMed:11060313, PubMed:16199525, PubMed:10772918, PubMed:16113678, PubMed:18948948, PubMed:21199865, PubMed:21458670, PubMed:25609812, PubMed:8358790, PubMed:8521816).

Cellular Location
[Isoform Alpha]: Mitochondrion outer membrane; Single-pass membrane protein. Cytoplasm. Nucleus 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. Upon Sendai virus infection, recruited to the mitochondrion through interaction with IRF3 (PubMed:25609812) [Isoform Gamma]: Cytoplasm.

Tissue Location
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 carcinoma, prostate adenocarcinoma, lung carcinoma, epidermoid carcinoma, small cell lung carcinoma and colon adenocarcinoma cell lines

Bax Antibody (Center) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

Bax Antibody (Center) Blocking peptide - Images

Bax Antibody (Center) Blocking peptide - Background

The protein encoded by this gene belongs to the BCL2protein family. BCL2 family members form hetero- or homodimers andact as anti- or pro-apoptotic regulators that are involved in awide variety of cellular activities. This protein forms aheterodimer with BCL2, and functions as an apoptotic activator.This protein is reported to interact with, and increase the openingof, the mitochondrial voltage-dependent anion channel (VDAC), whichleads to the loss in membrane potential and the release ofcytochrome c. The expression of this gene is regulated by the tumorsuppressor P53 and has been shown to be involved in P53-mediatedapoptosis. Multiple alternatively spliced transcript

variants,which encode different isoforms, have been reported for this gene.

Bax Antibody (Center) Blocking peptide - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)Montessuit, S., et al. Cell 142(6):889-901(2010)Ding, J., et al. J. Biol. Chem. 285(37):28749-28763(2010)Ho-Pun-Cheung, A., et al. Pharmacogenomics J. (2010) In press :Yu, D.K., et al. Zhonghua Zhong Liu Za Zhi 32(5):324-327(2010)