

Bax (Phospho Thr167) Rabbit pAb

CatalogNo: YP1169

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- IF, ELISA

MW

- 21kD (Calculated)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

IF 1:200-1:1000

ELISA 1:40000

Not yet tested in other applications

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human Bax around the phosphorylation site of Thr167. AA range:133-182

Specificity Phospho-Bax (T167) Polyclonal Antibody detects endogenous levels of Bax protein only when phosphorylated at T167. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):FGtPT

Target Information

Gene name BAX

Protein Name Apoptosis regulator BAX

Organism	Gene ID	UniProt ID
Human	581 ;	Q07812 ;
Mouse	12028 ;	Q07813 ;
Rat		Q63690 ;

Cellular Localization

[Isoform Alpha]: Mitochondrion outer membrane ; Single-pass membrane protein . Cytoplasm . 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 Beta]: Cytoplasm.; [Isoform Gamma]: Cytoplasm.; [Isoform Delta]: Cytoplasm .

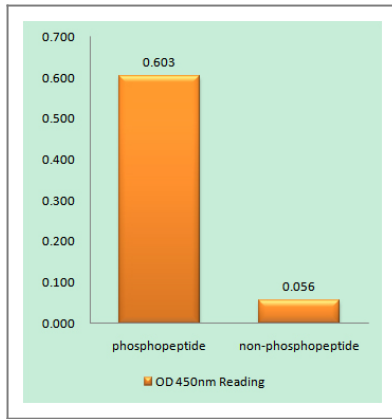
Tissue specificity

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 carcinoma , prostate adenocarcinoma , lung carcinoma , epidermoid carcinoma , small cell lung carcinoma and colon adenocarcinoma cell lines.

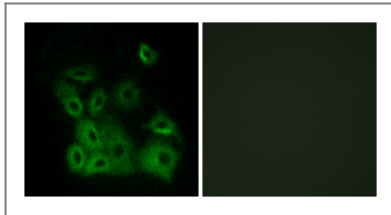
Function

Disease:Defects in BAX are found in some cell lines from hematopoietic malignancies as T-cell acute lymphoblastic leukemia , Burkitt lymphoma , and plasmacytoma. ,Domain:Intact BH3 motif is required by BIK , BID , BAK , BAD and BAX for their pro-apoptotic activity and for their interaction with anti-apoptotic members of the Bcl-2 family. ,Function: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. ,similarity:Belongs to the Bcl-2 family. ,subcellular location:Colocalizes with 14-3-3 proteins in the cytoplasm. Under stress conditions , redistributes to the mitochondrion membrane through the release from JNK-phosphorylated 14-3-3 proteins. ,subunit: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) . ,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 carcinoma , prostate adenocarcinoma , lung carcinoma , epidermoid carcinoma , small cell lung carcinoma and colon adenocarcinoma cell lines. ,

Validation Data



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Bax (Phospho-Thr167) Antibody



Immunofluorescence analysis of A549 cells, using Bax (Phospho-Thr167) Antibody. The picture on the right is blocked with the phospho peptide.

Contact information

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Please scan the QR code to access additional product information:
Bax (Phospho Thr167) Rabbit pAb

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