abcam

Product datasheet

Anti-Bax antibody ab10813

★★★★★ 2 Abreviews 23 References 1 Image

Overview

Product name	Anti-Bax antibody
Description	Rabbit polyclonal to Bax
Host species	Rabbit
Specificity	AHP471 recognises the human BAX protein, a proapoptotic member of the Bcl2 family.
Tested applications	**Suitable for:** IHC-P, WB, IP **Unsuitable for:** ICC/IF
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse
Immunogen	Synthetic peptide corresponding to Human Bax aa 43-61 (internal sequence). Sequence: CPELALDPVPQDASTKKLSE Database link: **Q07812** Run BLAST with Run BLAST with
General notes	This product should be stored undiluted. Storage in frost free freezers is not recommended. Should this product contain a precipitate we recommend microcentrifugation before use.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Purity	Whole antiserum
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee	Our **Abpromise guarantee** covers the use of ab10813 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/1000 - 1/2000. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Detects a band of approximately 21 kDa.
IP	★★★★★ (1)	1/1000.

Application notes Is unsuitable for ICC/IF.

Target

Function Accelerates programmed cell death by binding to, and antagonizing the apoptosis repressor BCL2 or its adenovirus homolog E1B 19k protein. 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.

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.

Sequence similarities Belongs to the Bcl-2 family.

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.

Cellular localization Cytoplasm and Mitochondrion membrane. 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.

Images

Immunoprecipitation - Anti-Bax antibody (ab10813)

ab10813 immunoprecipitating Bax. 2mg of human neuroblastoma whole cell lysate was incubated with **ab10813** at a 1/1000 dilution for 16 hours and then precipitated with protein A. An HRP polyclonal antibody was used as the secondary antibody.

This image is courtesy of an Abreview submitted by **David MacDonald** on **6 February 2006.**

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