

Product datasheet

Anti-Bax antibody [2D2] ab270742

Recombinant

[3 References](#) [3 Images](#)

Overview

Product name	Anti-Bax antibody [2D2]
Description	Mouse monoclonal [2D2] to Bax
Host species	Mouse
Tested applications	Suitable for: IP, WB
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa and MCF7 whole cell lysate. IP: HeLa whole cell lysate.
General notes	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p>

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.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)
Purity	Protein A purified
Clonality	Monoclonal
Clone number	2D2
Isotype	IgG2a
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab270742 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
IP		Use a concentration of 15.9 µg/ml.
WB		Use a concentration of 0.477 µg/ml. Predicted molecular weight: 21 kDa.

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.

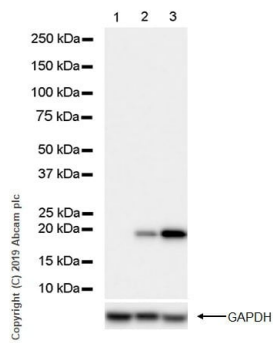
Tissue specificity Expressed in a wide variety of tissues. Isoform Psi is found in glial tumors. Isoform Alpha is expressed in spleen, breast, ovary, testis, colon and brain, and at low levels in skin and lung. Isoform Sigma is expressed in spleen, breast, ovary, testis, lung, colon, brain and at low 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



Western blot - Anti-Bax antibody [2D2] (ab270742)

All lanes : Anti-Bax antibody [2D2] (ab270742) at 1/1000 dilution

Lane 1 : Jurkat (human T cell leukemia T lymphocyte), whole cell lysate

Lane 2 : HeLa (human cervix adenocarcinoma epithelial cell), whole cell lysate

Lane 3 : MCF7 (human breast adenocarcinoma epithelial cell), whole cell lysate

Lysates/proteins at 10 µg per lane.

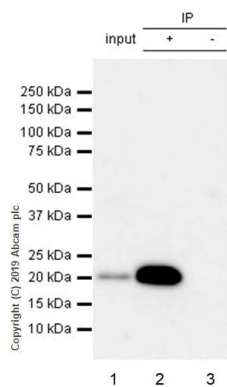
Secondary

All lanes : Peroxidase-Conjugated Goat anti-Mouse IgG at 1/10000 dilution

Predicted band size: 21 kDa

Exposure time: 37 seconds

Blocking/Dilution buffer: 5% NFDm/TBST.



Immunoprecipitation - Anti-Bax antibody [2D2]
(ab270742)

Bax was immunoprecipitated from HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate (2µg in 0.35mg lysates) with ab270742 at 15.9µg/ml. Western blot was performed from the immunoprecipitate using ab270742 at 1/1000 dilution. Anti-mouse IgG for IP (HRP) (**ab131368**) was used at 1/1000 dilution.

Lane 1: HeLa whole cell lysate 10µg (Input).

Lane 2: ab270742 IP in HeLa whole cell lysate.

Lane 3: Mouse monoclonal IgG instead of ab270742 in HeLa whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 30 secs.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-Bax antibody [2D2] (ab270742)

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