

Product datasheet

Anti-Bax antibody [2D2] - BSA and Azide free ab212790

Recombinant

3 Images

Overview

Product name	Anti-Bax antibody [2D2] - BSA and Azide free
Description	Mouse monoclonal [2D2] to Bax - BSA and Azide free
Host species	Mouse
Tested applications	Suitable for: WB, IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is considered to be commercially sensitive.
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>ab212790 is the carrier-free version of ab270742. This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.</p> <p>Our carrier-free formats are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm.</p> <p><i>Maxpar[®] is a trademark of Fluidigm Canada Inc.</i></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> <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p>

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	2D2
Isotype	IgG2a
Light chain type	kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab212790** 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
WB		1/1000. Predicted molecular weight: 21 kDa.
IP		1/30.

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
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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.

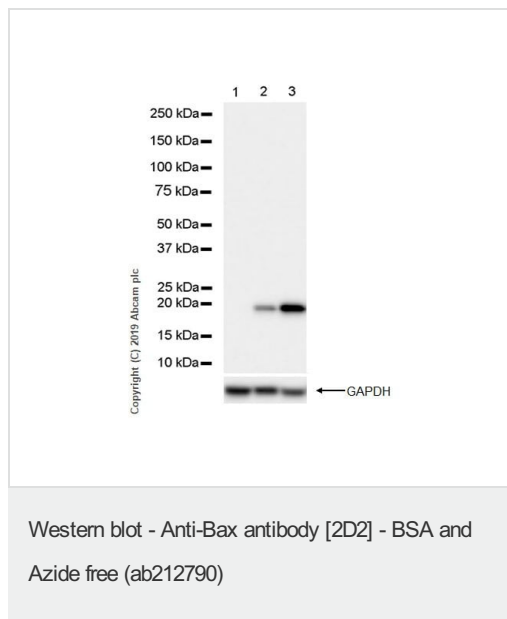
Domain

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



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

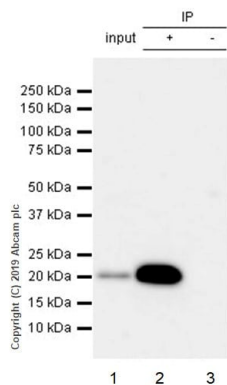
All lanes : Peroxidase-Conjugated Goat anti-Mouse IgG at 1/10000 dilution

Predicted band size: 21 kDa

Exposure time: 37 seconds

Blocking/Dilution buffer: 5% NFDm/TBST.

This image was produced using the same antibody clone but in a different formulation [ab270742](#), PBS, sodium azide, glycerol and BSA.



Immunoprecipitation - Anti-Bax antibody [2D2] - BSA and Azide free (ab212790)

Bax was immunoprecipitated from HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate (2µg in 0.35mg lysates) with [ab270742](#) at 1/30 dilution. 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.

This image was produced using the same antibody clone but in a different formulation [ab270742](#), PBS, sodium azide, glycerol and BSA.

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] - BSA and Azide free (ab212790)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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