abcam

Product datasheet

Anti-Bid antibody ab62469

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Overview

Product name	Anti-Bid antibody
Description	Rabbit polyclonal to Bid
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, WB, IHC-P
Species reactivity	**Reacts with:** Mouse
Immunogen	A 14 amino acid synthetic peptide from near the carboxy-terminus of human Bid
Positive control	Mouse lung cell lysates and mouse lung tissue
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. 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, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	pH: 7.2 Preservative: 0.02% Sodium azide Constituent: PBS
Purity	Ion Exchange Chromatography
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee	Our **Abpromise guarantee** covers the use of ab62469 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
ICC/IF		Use a concentration of 20 µg/ml.
WB	★★★★☆ (2)	Use a concentration of 0.5 - 1 µg/ml. Detects a band of approximately 28 kDa (predicted molecular weight: 22 kDa).
IHC-P		Use a concentration of 2 µg/ml.

Target

Function
The major proteolytic product p15 BID allows the release of cytochrome c (By similarity). Isoform 1, isoform 2 and isoform 4 induce ICE-like proteases and apoptosis. Isoform 3 does not induce apoptosis. Counters the protective effect of Bcl-2.

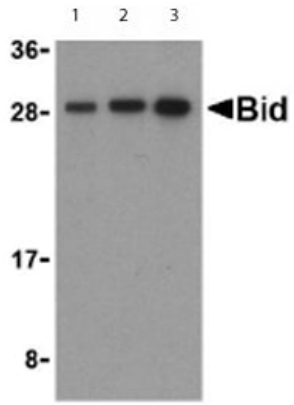
Tissue specificity
Isoform 2 and isoform 3 are expressed in spleen, bone marrow, cerebral and cerebellar cortex. Isoform 2 is expressed in spleen, pancreas and placenta (at protein level). Isoform 3 is expressed in lung, pancreas and spleen (at protein level). Isoform 4 is expressed in lung and pancreas (at protein level).

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.

Post-translational modifications
TNF-alpha induces a caspase-mediated cleavage of p22 BID into a major p15 and minor p13 and p11 products.
Phosphorylated upon DNA damage, probably by ATM or ATR.
p15 BID is ubiquitinated by ITCH; ubiquitination results in proteasome-dependent degradation.

Cellular localization
Cytoplasm; Cytoplasm. Mitochondrion membrane. When uncleaved, it is predominantly cytoplasmic; Mitochondrion membrane. A significant proportion of isoform 2 localizes to mitochondria, it may be cleaved constitutively; Mitochondrion membrane. Associated with the mitochondrial membrane and Mitochondrion membrane. Translocates to mitochondria as an integral membrane protein.

Images



Western blot - Anti-Bid antibody - Carboxyterminal end (ab62469)

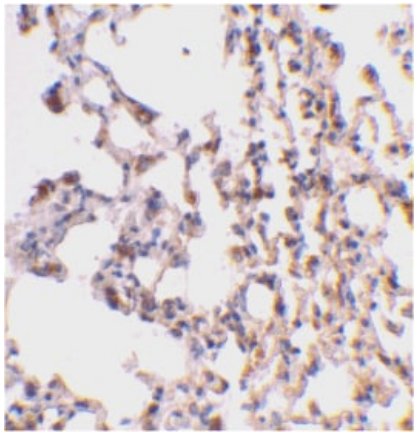
Lane 1 : Anti-Bid antibody (ab62469) at 0.5 µg/ml
Lane 2 : Anti-Bid antibody (ab62469) at 1 µg/ml
Lane 3 : Anti-Bid antibody (ab62469) at 2 µg/ml

All lanes : Mouse lung cell lysates

Lysates/proteins at 15 µg per lane.

Secondary
All lanes : Anti rabbit IgG secondary antibody

Predicted band size: 22 kDa
Observed band size: 28 kDa

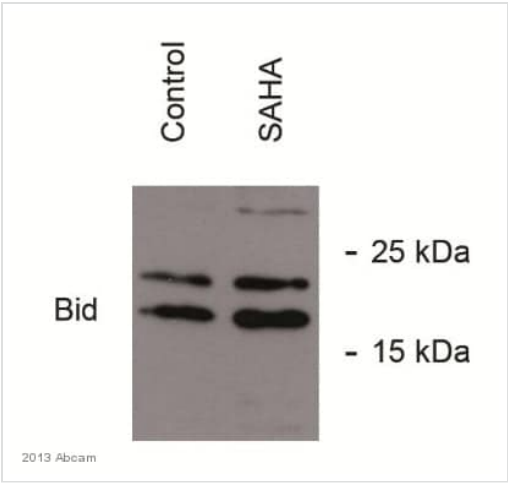


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Bid antibody - Carboxyterminal end (ab62469)

Immunohistochemical staining of mouse lung tissue using ab62469 antibody at 2 µg/ml.

Immunocytochemistry/ Immunofluorescence - Anti-Bid antibody - Carboxyterminal end (ab62469)

Immunofluorescence of Bid in Mouse Lung cells using ab62469 at 10 ug/ml.



Western blot - Anti-Bid antibody - Carboxyterminal end (ab62469)

Courtesy of an Abreview submitted by Christian Marx

All lanes : Anti-Bid antibody (ab62469) at 1/1000 dilution

Lane 1 : HCT116 colon cancer cell line treated with DMSO (control)
Lane 2 : HCT116 colon cancer cell line treated with 2 µM SAHA for 24 hrs

Lysates/proteins at 30 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 22 kDa

Exposure time: 10 seconds

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