

Datasheet for ABIN968577
anti-BID antibody (AA 50-62)



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Overview

Quantity:	50 µg
Target:	BID
Binding Specificity:	AA 50-62
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This BID antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Mouse Bid aa. 50-62
Clone:	7-Bid
Isotype:	IgG1
Cross-Reactivity:	Human
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Product Details

chromatography.

Target Details

Target:	BID
Alternative Name:	Bid (BID Products)
Background:	Members of the Bcl-2 protein family function to inhibit (Bcl-2, Bcl-XL, Mcl-1, A1) or promote (Bax, Bak, Bcl-Ls, Bad) apoptosis. Bid is a Bcl-2 family death agonist that heterodimerizes with either agonists (Bax) or antagonists (Bcl-2). Bid contains a centrally located BH3 domain that allows interaction with the BH1 domain of Bax and Bcl-2. However, Bid does not contain other domains commonly found in Bcl-2 family members, such as BH1, BH2, or BH4. In addition, Bid does not contain a C-terminal hydrophobic region that is characteristic of membrane-bound Bcl-2 family members. Singlet oxygen-induced apoptosis in human leukemia cells and Fas-induced apoptosis involve caspase-8 cleavage of Bid, which produces a 15 kDa C-terminal fragment and a 6.5 kDa N-terminal fragment. The C-terminal fragment translocates to the mitochondria and promotes the release of cytochrome C through a mechanism that might involve destabilization of the mitochondrial membrane. Thus, the proapoptotic role of Bid may involve mitochondrial membrane destabilization, as well as multiple protein-protein interactions.
Molecular Weight:	23 kDa
Pathways:	Apoptosis , Caspase Cascade in Apoptosis , Positive Regulation of Endopeptidase Activity

Application Details

Comment:	Related Products: ABIN968537 , ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store undiluted at -20° C.

Publications

Product cited in: Devarajan, De Leon, Talasazan, Schoenfeld, Davidowitz, Burk: "The von Hippel-Lindau gene product inhibits renal cell apoptosis via Bcl-2-dependent pathways." in: **The Journal of biological chemistry**, Vol. 276, Issue 44, pp. 40599-605, (2001) ([PubMed](#)).

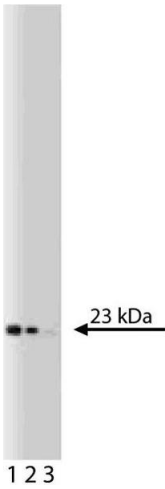
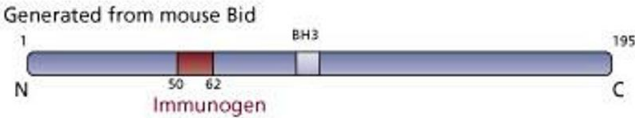
Gómez-Angelats, Cidlowski: "Protein kinase C regulates FADD recruitment and death-inducing signaling complex formation in Fas/CD95-induced apoptosis." in: **The Journal of biological chemistry**, Vol. 276, Issue 48, pp. 44944-52, (2001) ([PubMed](#)).

Zhuang, Demirs, Kochevar: "p38 mitogen-activated protein kinase mediates bid cleavage, mitochondrial dysfunction, and caspase-3 activation during apoptosis induced by singlet oxygen but not by hydrogen peroxide." in: **The Journal of biological chemistry**, Vol. 275, Issue 34, pp. 25939-48, (2000) ([PubMed](#)).

Kudla, Montessuit, Eskes, Berrier, Martinou, Ghazi, Antonsson: "The destabilization of lipid membranes induced by the C-terminal fragment of caspase 8-cleaved bid is inhibited by the N-terminal fragment." in: **The Journal of biological chemistry**, Vol. 275, Issue 30, pp. 22713-8, (2000) ([PubMed](#)).

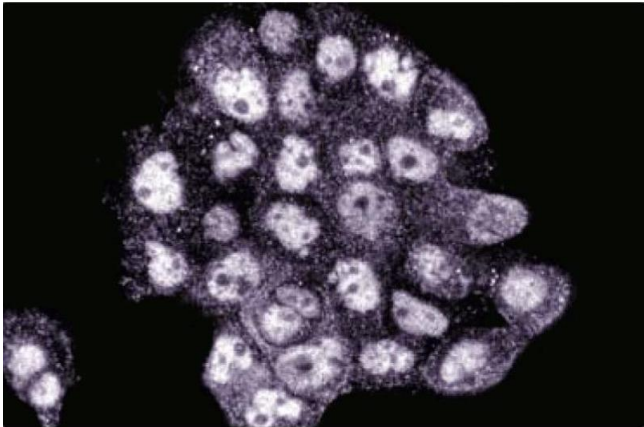
Wang, Yin, Chao, Milliman, Korsmeyer: "BID: a novel BH3 domain-only death agonist." in: **Genes & development**, Vol. 10, Issue 22, pp. 2859-69, (1996) ([PubMed](#)).

Image 1.



Western Blotting

Image 2. Western blot analysis of Bid on a Jurkat cell lysate (Human T-cell leukemia, ATCC TIB-152). Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the mouse anti-human Bid antibody.



Immunofluorescence

Image 3. Immunofluorescence staining of A431 cells (Human epithelial carcinoma, ATCC CRL-1555).