

Product Datasheet

BID Antibody - BSA Free NB100-56106

Unit Size: 0.05 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NB100-56106

BID Antibody - BSA Free

| Product Information | |
|-----------------------------|--|
| Unit Size | 0.05 ml |
| Concentration | This product is unpurified. The exact concentration of antibody is not quantifiable. |
| Storage | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles. |
| Clonality | Polyclonal |
| Preservative | 0.05% Sodium Azide |
| Isotype | IgG |
| Purity | Unpurified |
| Buffer | Whole antisera |
| Product Description | |
| Description | Novus Biologicals Rabbit BID Antibody - BSA Free (NB100-56106) is a polyclonal antibody validated for use in IHC, WB and IP. Anti-BID Antibody: Cited in 9 publications. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| Host | Rabbit |
| Gene ID | 637 |
| Gene Symbol | BID |
| Species | Human, Mouse, Rat, Canine, Gerbil |
| Specificity/Sensitivity | Full-length Bid is known to undergo cleavage/truncation (reviewed in Yin, 2006). Bid was initially found to be cleaved and activated by caspase-8 following death receptor activation. The term "Bid" was first used to describe the caspase-8 cleaved/truncated C-terminal Bid. Bid can be also cleaved by other proteases such as Granzyme B, calpains and cathepsin. The C-terminal portion is considered to be the active Bid moiety. This active form can translocate from the cytosol to the mitochondria. Therefore, the appearance of Bid in the mitochondria is considered to be an indication of active Bid. However, it should also be noted that Bid has been shown to translocate to the mitochondria without cleavage in some model systems. The proteolytic cleavage of Bid usually occurs in the unstructured loop region between the alpha 2 and alpha 3 helices, which is between amino acids (aa) 41 and 79 of Bid. For example, the caspase-8/3 cleavage site is at 60 (human) and 59 (mouse). It should be noted that after cleavage, the smaller N-terminal portion of Bid is not necessarily separated from the larger C-terminal portion. The exact size of the C-terminal cleavage products depends on the Bid cleavage sites; generally 11-15 kDa C-truncated cleavage forms are generated. Shorter C-terminal Bid cleavage products may result from protease cleavage that involves both caspases and other proteases. Full length Bid is quite stable, but cleaved/truncated forms may have a short half-life (less than 1.5 h) and degrade rapidly. Therefore, a time course may be useful when detecting Bid cleavage fragments. |
| Immunogen | Full-length recombinant mouse Bid protein was used as immunogen. |
| Product Application Details | |
| Applications | Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation |

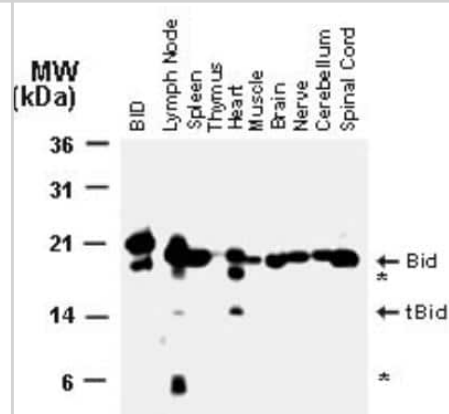


Recommended Dilutions

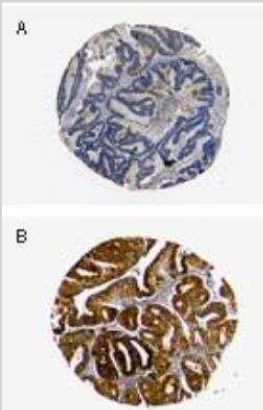
Western Blot 1:1000-1:2000, Immunohistochemistry, Immunoprecipitation 1:50-1:200, Immunohistochemistry-Paraffin 1:1000-1:5000, Immunohistochemistry-Frozen 1:1000 - 1:5000

Images

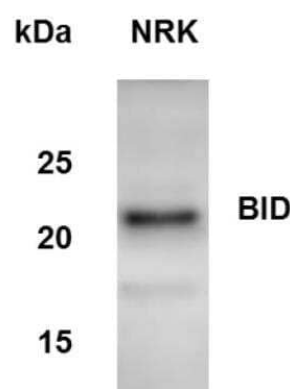
Western Blot: BID Antibody [NB100-56106] - Analysis of Bid in normal mouse tissues using this antibody. BID = recombinant Bid. Arrowheads indicate the positions of the full-length (uncleaved) ~22 kDa Bid and the ~15 kDa truncated form of Bid (tBid) typical of the caspase-cleavage. Additional bands representing partial Bid degradation products are indicated by asterisks (*).



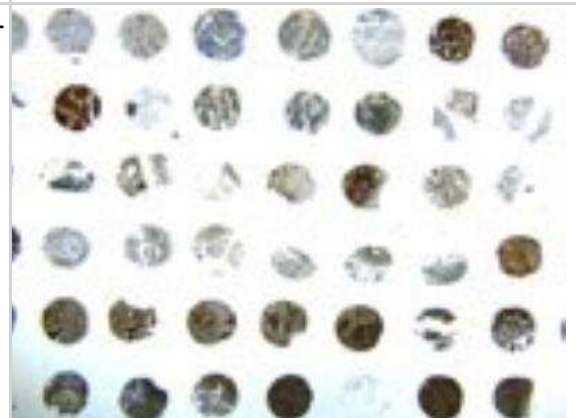
Immunohistochemistry-Paraffin: BID Antibody [NB100-56106] - Two cores from a human ovarian carcinoma formalin-fixed, paraffin-embedded tissue microarray demonstrate the variable expression of Bid protein. The sections were stained with Bid antibody at 1:2000 with hematoxylin-eosin counterstain. Section A shows very weak staining while section B stains much more strongly.



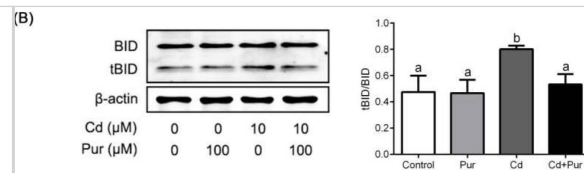
Western Blot: BID Antibody [NB100-56106] - Analysis of BID in NRK whole cell lysate using anti-BID antibody. Image from verified customer review.



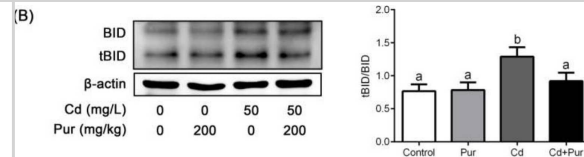
Immunohistochemistry-Paraffin: BID Antibody [NB100-56106] - Formalin-fixed, paraffin-embedded human ovarian carcinoma tissue array stained for Bid expression using this antibody at 1:2000. Hematoxylin-eosin counterstain. Variable Bid expression is seen between patient samples.



Pur attenuates Cd-induced apoptosis via inhibiting the Fas/FasL-mediated mitochondrial apoptotic pathway in primary cortical neurons in vitro. Primary cortical neurons were pretreated with 100 μ M Pur for 1 h, followed by 10 μ M Cd exposure for 12 h. (A) The levels of Fas, FasL, FADD, and Cleaved Caspase-8; (B) ratio of tBID/BID; and (C) the levels of Cleaved Caspase-9, Cleaved Caspase-3, and Cleaved PARP1 were detected by Western blot. Left panel: representative Western blot image; right panel: quantitative analysis (mean \pm SD; n = 3). The means labeled without a common letter (a, b, c) are significantly different, $p < 0.05$. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/34356602>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Pur attenuates Cd-induced apoptosis via inhibiting the Fas/FasL-mediated mitochondrial apoptotic pathway in the rat cerebral cortex in vivo. Rats were treated with Cd (50 mg/L) and/or Pur (200 mg/kg) for 90 days. (A) The levels of Fas, FasL, FADD, and Cleaved Caspase-8; (B) ratio of tBID/BID; and (C) the levels of Cleaved Caspase-9, Cleaved Caspase-3, and Cleaved PARP1 were detected by Western blot. Left panel: representative Western blot image; right panel, quantitative analysis (mean \pm SD, n = 3). The means labeled without a common letter (a, b, c) are significantly different, $p < 0.05$. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/34356602>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Lin H, Hsu J, Tseng C et al. Hepatoprotective Activity of Nelumbo nucifera Gaertn. Seedpod Extract Attenuated Acetaminophen-Induced Hepatotoxicity Molecules 2022-06-23 [PMID: 35807275] (WB, Human)

Wang, X, Nichols, L Et al. Fascin2 regulates cisplatin-induced apoptosis in NRK-52E cells. Toxicol Lett 2017-01-15 [PMID: 27989596] (WB, Human)

Wen S, Wang L, Zou H Et Al. Puerarin Attenuates Cadmium-Induced Neuronal Injury via Stimulating Cadmium Excretion, Inhibiting Oxidative Stress and Apoptosis Biomolecules 2021-07-02 [PMID: 34356602]

Tseng H, Hsu J, Huang X et al. In vitro and in vivo protective effect of Lotus seedpod extract against acetaminophen-induced liver injury Research Square 2020-06-15 (WB, Human)

Tseng H, Hsu J, Huang X et al. In vitro and in vivo protective effect of Lotus seedpod extract against acetaminophen-induced liver injury Research Square Jun 15 2020 12:00AM (WB, Mouse, Human)

Ran N, Gao X, Dong X et al. Effects of exosome-mediated delivery of myostatin propeptide on functional recovery of mdx mice Biomaterials 2020-01-01 [PMID: 32028167] (IF/IHC, Mouse)

Yuan Y, Zhang Y, Zhao S et al. Cadmium-induced apoptosis in neuronal cells is mediated by Fas/FasL-mediated mitochondrial apoptotic signaling pathway Sci Rep 2018 Jun 11 [PMID: 29891925] (WB, Rat)

Yuan Y, Zhang Y, Zhao S et al. Cadmium-induced apoptosis in neuronal cells is mediated by Fas/FasL-mediated mitochondrial apoptotic signaling pathway Sci Rep 2018 Jun 11 [PMID: 29891925] (WB, Rat)

Liu G, Yuan Y, Long M et al. Beclin-1-mediated Autophagy Protects Against Cadmium-activated Apoptosis via the Fas/FasL Pathway in Primary Rat Proximal Tubular Cell Culture. Sci Rep 2017-04-20 [PMID: 28428545] (Rat)

Wang X, Parrish AR. Loss of alpha(E)-catenin promotes Fas mediated apoptosis in tubular epithelial cells Apoptosis 2015-04-17 [PMID: 25894537] (WB, Rat)

Tiao MM, Lin TK, Chen JB et al. Dexamethasone decreases cholestatic liver injury via inhibition of intrinsic pathway with simultaneous enhancement of mitochondrial biogenesis. Steroids. 2011-06-01 [PMID: 21419148]

Krajewska M, Rosenthal RE, Mikolajczyk J et al. Early processing of Bid and caspase-6, -8, -10, -14 in the canine brain during cardiac arrest and resuscitation. Exp Neurol. 2004-10-01 [PMID: 15380478] (IHC-P, WB, Rat, Mouse, Canine)

Details:

Antibodies cited: 1. Caspase-9 (Active/Cleaved), IMG-5705: WB: Fig 1A (recombinant human caspase-9), Fig 4A (recombinant human caspase-9, rat brain), Fig 4B-F (isolated mitochondria from rat liver or heart). Fig 5 (PC12 cells) IHC (P): Fig 2d-k (rat kidney)



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Products Related to NB100-56106

| | |
|-------------|---|
| NBP2-33376H | Blue Marker Antibody (6F4-F6) [HRP] |
| HAF008 | Goat anti-Rabbit IgG Secondary Antibody [HRP] |
| NB7160 | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891 | Rabbit IgG Isotype Control |

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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