

# Product Datasheet

## **BID Antibody** **NB100-56108**

Unit Size: 0.05 ml

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

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

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**NB100-56108**

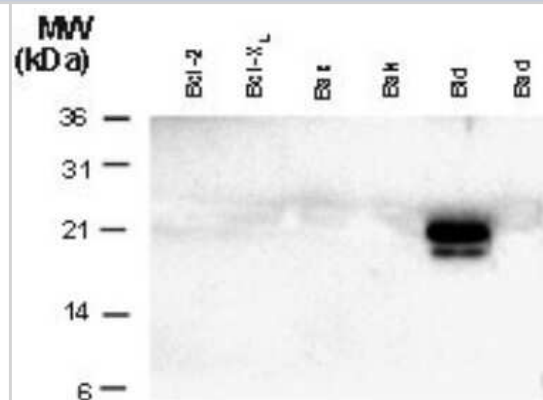
BID Antibody

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	
Host	Rabbit
Gene ID	637
Gene Symbol	BID
Species	Human, Mouse, Rat, Canine
Reactivity Notes	Mouse, Canine, Rat reactivity reported in scientific literature (PMID: 15380478).
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	A synthetic peptide corresponding to amino acids 28-50 (CSDNSFRRELDALGHELPVLAPQ) of human Bid (also known as Bid, isoform 2) was used as immunogen; GenBank no. NP_001187.1. Human Bid is a 195 amino acid protein.
Product Application Details	
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000-1:2000, Immunohistochemistry, Immunoprecipitation 1:50-1:200, Immunohistochemistry-Paraffin 1:1000-1:5000

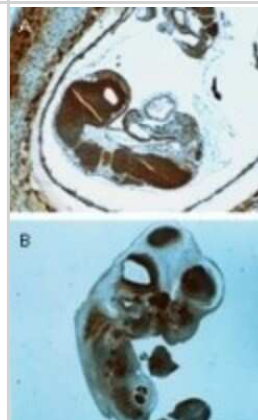


## Images

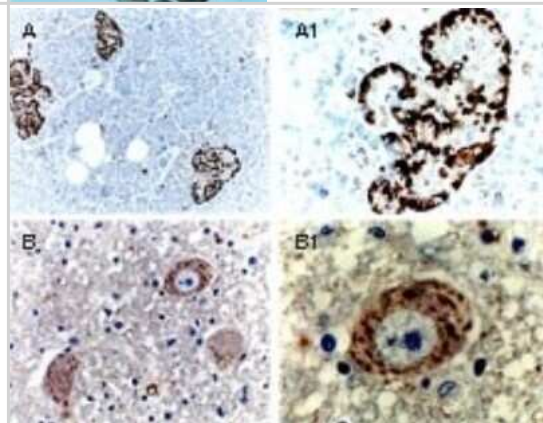
Western Blot: BID Antibody [NB100-56108] - Used at 1:2000 and detected in vitro translated Bid, but not in vitro translated Bcl-2, Bcl-xL, Bax, or Bad. These results show that this antibody is specific for Bid and does not crossreact with other Bcl-2 family members.



Immunohistochemistry-Paraffin: BID Antibody [NB100-56108] - Bid Antibody [NB100-56108] - Used at 1:2000 to stain Mouse Embryos. A) Intrauterine embryo at E.95 dpc (days post conception). B) 10.5-11 dpc Embryo isolated from the yolk sac. Hematoxylin-eosin counterstain.



Immunohistochemistry-Paraffin: BID Antibody [NB100-56108] - Bid Antibody [NB100-56108] - Used at 1:2000 to stain Human tissue sections. A) and Adult Pancreas B) Adult mesencephalon (midbrain). A1 and B1 are higher magnifications of A and B, respectively. Hematoxylin-eosin counterstain



## Publications

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, Canine, Mouse, Rat)

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)



### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

[www.novusbio.com](http://www.novusbio.com)  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **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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