10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Bid Antibody

Catalog # ASC10255

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	P55957
Other Accession	AAH36364, 54673639
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	21995
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	Bid antibody can be used for detection of Bid by Western blot at 0.5 to 2 g/mL. Antibody can also be used for immunohistochemistry starting at 2 g/mL. For immunofluorescence start at 10 g/mL.

Additional Information

Gene ID	637
Other Names	Bid Antibody: FP497, BH3-interacting domain death agonist, p22 BID, BID, BH3 interacting domain death agonist
Target/Specificity	BID;
Reconstitution & Storage	Bid antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	Bid Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	BID
Function	Induces caspases and apoptosis (PubMed: 14583606). Counters the protective effect of BCL2 (By similarity).
Cellular Location	Cytoplasm. Mitochondrion membrane. Mitochondrion outer membrane. Note=When uncleaved, it is predominantly cytoplasmic. [BH3-interacting domain death agonist p13]: Mitochondrion membrane {ECO:0000250|UniProtKB:P70444}. Note=Associated with the mitochondrial membrane. {ECO:0000250|UniProtKB:P70444} [Isoform 3]: Cytoplasm

Tissue Location	[Isoform 2]: Expressed in spleen, pancreas and placenta (at protein level). [Isoform 4]: Expressed in lung and pancreas (at protein level).

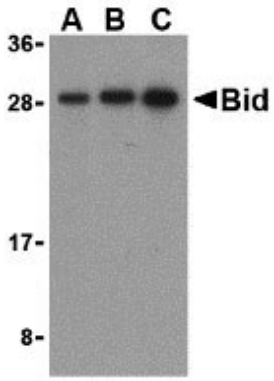
Background

Bid Antibody: Apoptosis plays a major role in normal organism development, tissue homeostasis, and removal of damaged cells. Disruption of this process has been implicated in a variety of diseases such as cancer. The Bcl-2 family of proteins is comprised of critical regulators of apoptosis that can be divided into two classes: those that inhibit apoptosis and those that promote cell death. Bid, a pro-apoptotic Bcl-2 family member, is cleaved by caspase-8 in response to apoptotic signals, exposing the Bcl-2 homology 3 (BH3) domain which is normally buried in the full-length protein. The cleaved complex is myris-toylated and translocated to the mitochondrial membrane where it may induce mitochondrial Bax and Bak to oligomerize.

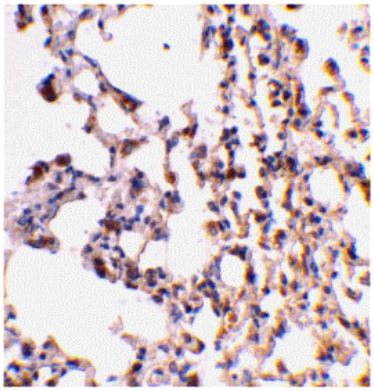
References

Lockshin RA, Osborne B, and Zakeri Z. Cell death in the third millennium. Cell Death Differ. 2000; 7:2-7.
Cory S, Huang DCS, and Adams JM. The Bcl-2 family: roles in cell survival and oncogenesis. Oncogene 2003; 22:8590-607.
Heiser D, Labi V, Erlacher M, et al. The Bcl-2 protein family and its role in the development of neoplastic disease. Exp. Geron. 2004; 39:1125-35.
Wang K, Yin XM, Chao DT, et al. BID: a novel BH3 domain-only death agonist. Genes Dev. 1996; 10:2859-69.

Images

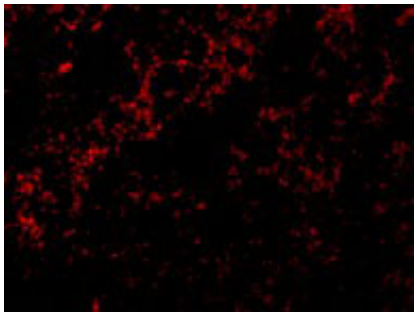


Western blot analysis of Bid in mouse lung cell lysates with Bid antibody at (A) 0.5, (B) 1, and (C) 2 µg/mL.



Immunohistochemical staining of mouse lung tissue using Bid antibody at 2 µg/mL.

Immunofluorescence of Bid in Mouse Lung cells with Bid antibody at 10 µg/mL.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.