

## Anti-Bid Antibody

Catalog Number: PA2015

### About Bid

BID (BH3-Interacting Domain Death Agonist), is a pro-apoptotic member of the Bcl-2 protein family. The BCL2 family of proteins consists of both antagonists and agonists that regulate apoptosis and compete through dimerization. By fluorescence in situ hybridization, Wang et al. (1998) mapped the human BID gene to 22q11. Luo et al. (1998) reported the purification of a cytosolic protein that induces cytochrome c release from mitochondria in response to caspase-8, the apical caspase activated by cell surface death receptors such as FAS and TNF.

### Overview

Product Name	Anti-Bid Antibody
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Bid Antibody catalog # PA2015. Tested in Flow Cytometry, IHC, WB applications. This antibody reacts with Mouse, Rat.
Application	Flow Cytometry, IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P70444

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of mouse Bid, different from the related rat sequence by one amino acid.
Predicted Reactive Species	Hamster
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.

Purification	Immunogen affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Mouse</p> <p>Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Mouse, Rat By Heat</p> <p>Flow Cytometry, 1-3 ug/1x10<sup>6</sup> cells, Human</p>

## Anti-Bid Antibody (PA2015) Images

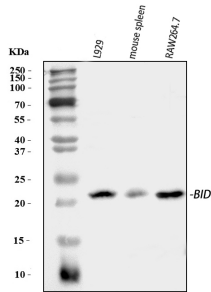


Figure 1. Western blot analysis of Bid using anti-Bid antibody (PA2015).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: mouse L929 whole cell lysates,

Lane 2: mouse spleen tissue lysates,

Lane 3: mouse RAW264.7 whole cell lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Bid antigen affinity purified polyclonal antibody (Catalog # PA2015) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Bid at approximately 22 kDa. The expected band size for Bid is at 22 kDa.

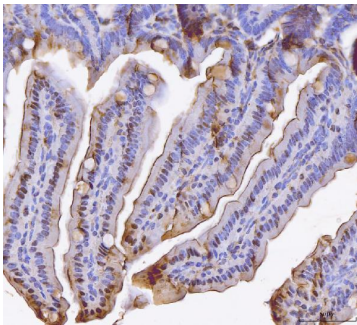


Figure 2. IHC analysis of Bid using anti-Bid antibody (PA2015).

Bid was detected in a paraffin-embedded section of mouse colon tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Bid Antibody (PA2015) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

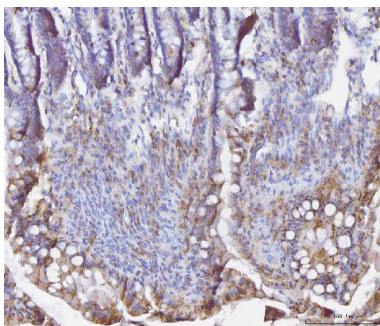
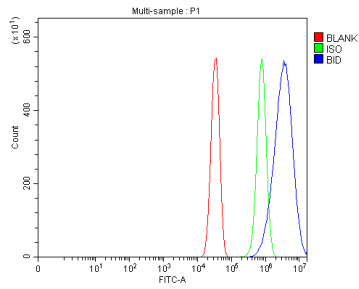


Figure 3. IHC analysis of Bid using anti-Bid antibody (PA2015).

Bid was detected in a paraffin-embedded section of rat colon tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Bid Antibody (PA2015) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

Figure 4. Flow Cytometry analysis of Neuro-2a cells using anti-Bid antibody (PA2015).

Overlay histogram showing Neuro-2a cells stained with



PA2015 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Bid Antibody (PA2015, 1 ug/1x10<sup>6</sup> cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

## 1 Publications Citing This Product

1. PubMed ID: 20211517, Wang Xb, Liu Qh, Mi N, Wang P, Tang W, Zhao Xh, Li Xj. Ultrasound Med Biol. 2010 Apr;36(4):667-76. Doi: 10.1016/J.Ultrasmedbio.2009.09.006. Epub 2010 Mar 7. Sonodynamically Induced Apoptosis By Protoporphyrin Ix On Hepatoma-22 Cells In Vitro.

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