



## Rabbit Anti-Bid antibody

SL1153R

<b>Product Name:</b>	Bid
<b>Chinese Name:</b>	BH3结构域凋亡诱导蛋白抗体
<b>Alias:</b>	Apoptotic death agonist; Apoptotic death agonist; Apoptotic death agonist BID; BH3 interacting domain death agonist; BH3 interacting domain death agonist; BH3 interacting domain death agonist p11; BH3 interacting domain death agonist p13; BH3 interacting domain death agonist p15; BH3-interacting domain death agonist p11; BID; BID isoform ES(1b); BID isoform L(2); BID isoform Si6; BID_HUMAN; Desmocollin type 4; FP497; HGNC:1050; Human BID coding sequence; MGC15319; MGC42355; p11 BID; p13 BID; p15 BID; p22 BID.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1μg/TestIF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	21kDa
<b>Cellular localization:</b>	cytoplasmic <a href="#">Mitochondrion</a>
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human Bid:102-195/195
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	Bid, a BH3 domain containing proapoptotic Bcl2 family member, is localized in the

cytosolic fraction of cells as an inactive precursor. Its active form is generated upon proteolytic cleavage by caspase 8 in the Fas signaling pathway. Cleaved Bid translocates to mitochondria and releases its potent proapoptotic activity, which in turn induces cytochrome c release and mitochondrial damage. The cytochrome c releasing activity of Bid was antagonized by Bcl2. Mutation in the SH3 domain can diminish the cytochrome c releasing activity. In animal model studies, Bid deficient mice are found resistant to the lethal effects of death factor signals relayed through Fas.

**Function:**

The major proteolytic product p15 BID allows the release of cytochrome c. Isoform 1, isoform 2 and isoform 4 induce ICE-like proteases and apoptosis. Isoform 3 does not induce apoptosis. Counters the protective effect of Bcl-2.

**Subunit:**

Forms heterodimers either with the pro-apoptotic protein BAX or the anti-apoptotic protein Bcl-2.

**Subcellular Location:**

Cytoplasm. Mitochondrion membrane. Note=When uncleaved, it is predominantly cytoplasmic. BH3-interacting domain death agonist p15: Mitochondrion membrane. Note=Translocates to mitochondria as an integral membrane protein. BH3-interacting domain death agonist p13: Mitochondrion membrane. Note=Associated with the mitochondrial membran. Isoform 1: Cytoplasm. Isoform 3: Cytoplasm. Isoform 2: Mitochondrion membrane. Note=A significant proportion of isoform 2 localizes to mitochondria, it may be cleaved constitutively.

**Tissue Specificity:**

Isoform 2 and isoform 3 are expressed in spleen, bone marrow, cerebral and cerebellar cortex. Isoform 2 is expressed in spleen, pancreas and placenta (at protein level). Isoform 3 is expressed in lung, pancreas and spleen (at protein level). Isoform 4 is expressed in lung and pancreas (at protein level).

**Post-translational modifications:**

TNF-alpha induces a caspase-mediated cleavage of p22 BID into a major p15 and minor p13 and p11 products.  
Phosphorylated upon DNA damage, probably by ATM or ATR.

**SWISS:**

P55957

**Gene ID:**

637

**Database links:**

[Entrez Gene: 637](#)Human

[Entrez Gene: 12122](#)Mouse

[Entrez Gene: 64625](#)Rat

[Oimim: 601997](#)Human

[SwissProt: P55957](#)Human

[SwissProt: P70444](#)Mouse

[SwissProt: Q9JLT6](#)Rat

[Unigene: 591054](#)Human

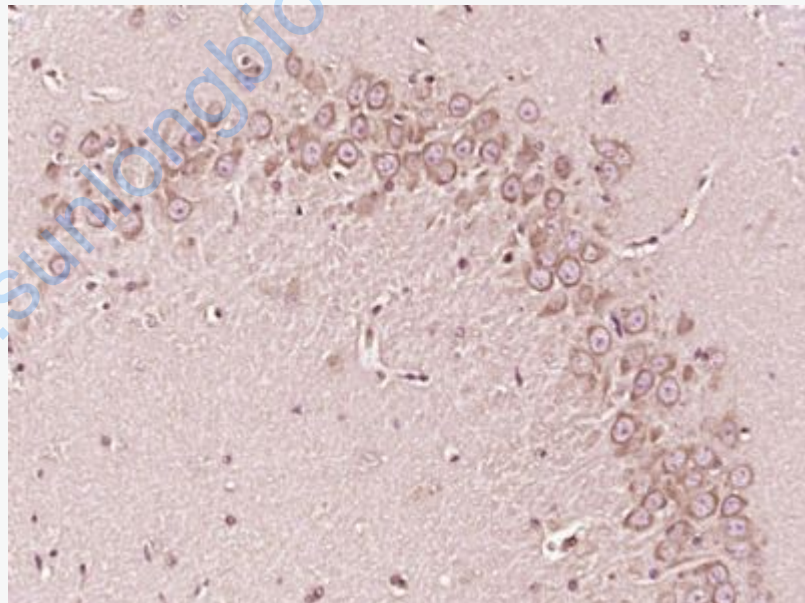
[Unigene: 235081](#)Mouse

[Unigene: 31142](#)Rat

**Important Note:**

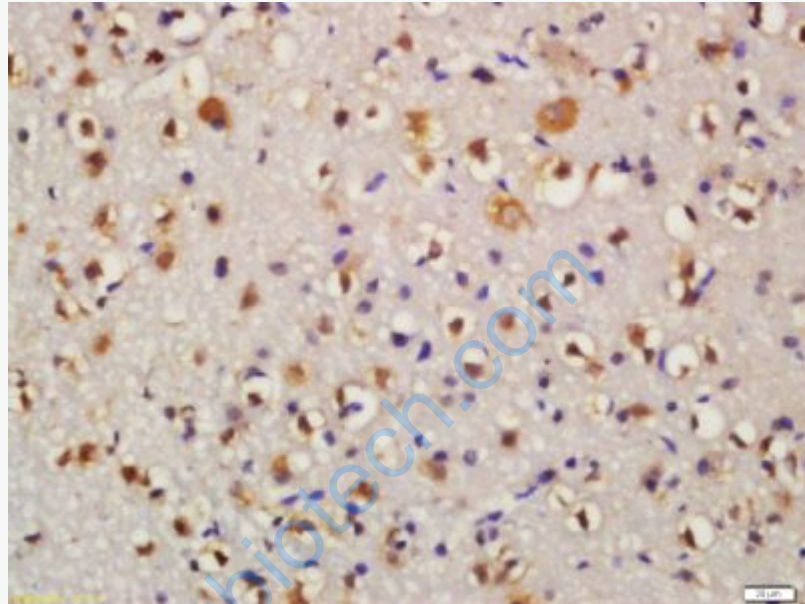
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**Picture:**



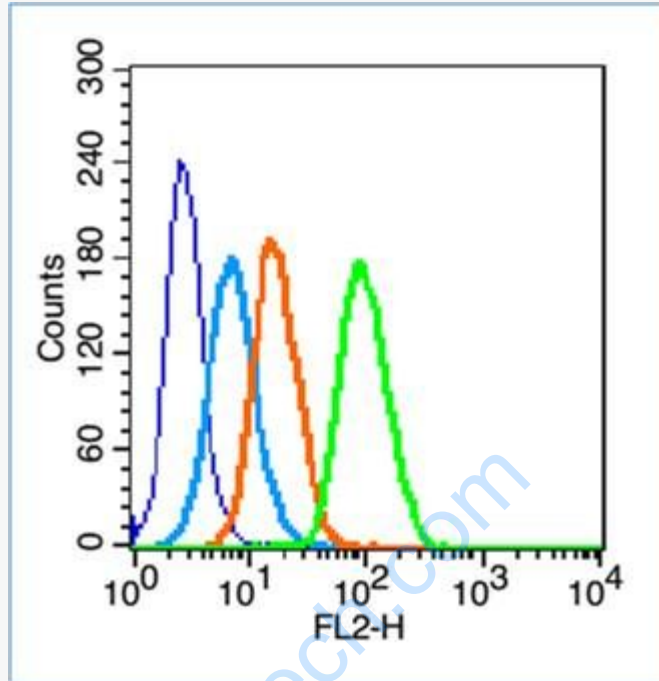
Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Bid) Polyclonal Antibody, Unconjugated

(SL1153R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Tissue/cell: mouse brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;  
Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-Bid Polyclonal Antibody, Unconjugated(SL1153R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control (blue line): HL60 (blue).

Primary Antibody (green line): Rabbit Anti-Bid antibody (SL1153R)

Dilution:  $1\mu\text{g} / 10^6$  cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE

Dilution:  $1\mu\text{g} / \text{test}$ .

#### Protocol

The cells were fixed with 70% ethanol (overnight at  $4^{\circ}\text{C}$ ) and then permeabilized with 0.1% PBS-Tween for 20 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The cells were then incubated in 1 X PBS/2%BSA/10% goat serum to block non-specific protein-protein interactions followed by the antibody for 15 min at room temperature. The secondary antibody

	used for 40 min at room temperature. Acquisition of 20,000 events was performed.
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