SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-Bid antibody

Catalog Number: SL1153R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Bid
Immunogen:	KLH conjugated synthetic peptide derived from human Bid: 102-195/195
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:100-500 IF=1:100-500 Flow-Cyt=1μg/Test （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human, Mouse, Rat
Predicted MW.:	21kDa
Subcellular Location:	cytoplasmic Mitochondrion
Background:	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

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	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. **Database links:** **Entrez Gene:** 637 Human **Entrez Gene:** 12122 Mouse **Entrez Gene:** 64625 Rat Omim: 601997 Human **SwissProt:** P55957 Human **SwissProt:** P70444 Mouse **SwissProt:** Q9JLT6 Rat **Unigene:** 591054 Human **Unigene:** 235081 Mouse **Unigene:** 31142 Rat

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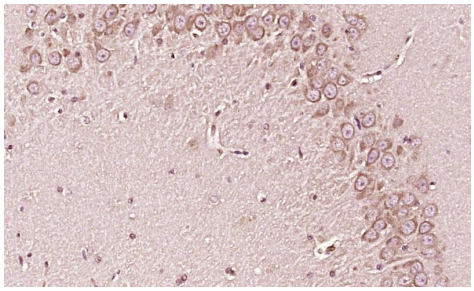
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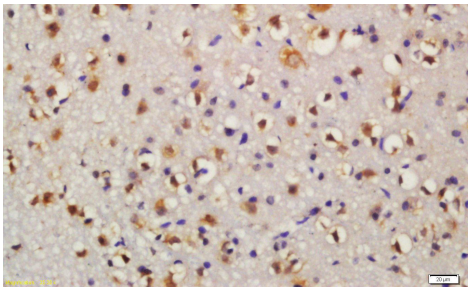
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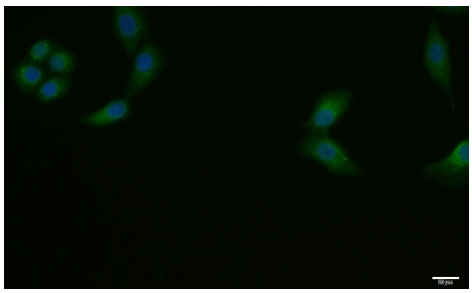
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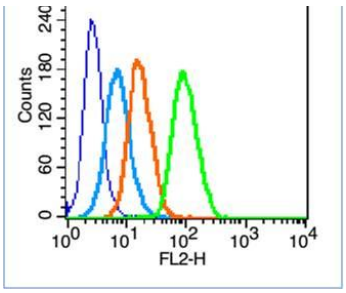
Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Bid) Polyclonal Antibody, Unconjugated (SL1153R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Tissue/cell: mouse brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, 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



MCF-7 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (Bid) polyclonal Antibody, Unconjugated (SL1153R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



Blank control (blue line): HL60 (blue).
Primary Antibody (green line): Rabbit Anti-Bid antibody (SL1153R)
Dilution: 1μg /10^6 cells;
Isotype Control Antibody (orange line): Rabbit IgG .
Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE
Dilution: 1μg /test.
Protocol
The cells were fixed with 70% ethanol (overninght at 4°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.

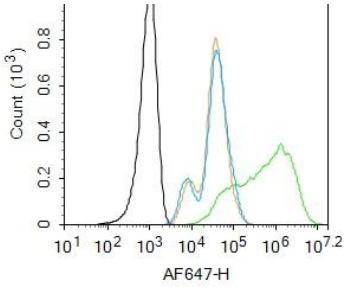
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Blank control: A431.
Primary Antibody (green line): Rabbit Anti-Bid antibody (SL1153R)
Dilution: 1µg /10^6 cells;
Isotype Control Antibody (orange line): Rabbit IgG .
Secondary Antibody : Goat anti-rabbit IgG-AF647
Dilution: 1µg /test.
Protocol
The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 0.1%PBST for 20 min at room temperature.The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 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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