SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-Bim antibody

Catalog Number: SL1488R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Bim
Immunogen:	KLH conjugated synthetic peptide derived from the middle of human Bim: 51-150/198
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:	WB=1:500-2000 Flow-Cyt=1ug/test not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human(predicted:Mouse,Rat,Dog,Pig,Cow,Horse,Sheep)
Predicted MW.:	22kDa
Subcellular Location:	cytoplasmic The cell membrane Mitochondrion
Background:	The protein encoded by this gene belongs to the BCL-2 protein family. BCL-2 family members form hetero- or homodimers and act as anti- or pro-apoptotic regulators that are involved in a wide variety of cellular activities. The protein encoded by this gene contains a Bcl-2 homology domain 3 (BH3). It has been shown to interact with other members of the BCL-2 protein family, including BCL2, BCL2L1/BCL-X(L), and MCL1, and to act as an apoptotic activator. The expression of this gene can be induced by nerve growth factor (NGF), as well as by the forkhead transcription factor FKHR-L1, which suggests a role of this gene in neuronal and lymphocyte apoptosis. Transgenic studies of the mouse counterpart suggested that this gene functions as an essential initiator of apoptosis in thymocyte-negative selection. Several alternatively spliced transcript variants of this gene have been identified. [provided by RefSeq].

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

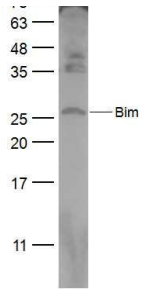
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	Function: Induces apoptosis. Isoform BimL is more potent than isoform BimEL. Isoform Bim-alpha1, isoform Bim-alpha2 and isoform Bim-alpha3 induce apoptosis, although less potent than the isoforms BimEL, BimL and BimS. Isoform Bim-gamma induces apoptosis. **Subunit:** Forms heterodimers with a number of antiapoptotic Bcl-2 proteins including MCL1, BCL2, BCL2L1 isoform Bcl-X(L), BCL2A1/BFL-1, and BHRF1. Does not heterodimerize with proapoptotic proteins such as BAD, BOK, BAX or BAK. **Subcellular Location:** Endomembrane system; Peripheral membrane protein. Note=Associated with intracytoplasmic membranes. Isoform BimEL: Mitochondrion. Isoform BimL: Mitochondrion. Isoform BimS: Mitochondrion. Isoform Bim-alpha1: Mitochondrion. **Tissue Specificity:** Isoform BimEL, isoform BimL and isoform BimS are the predominant isoforms and are ubiquitously expressed with a tissue-specific variation. Isoform Bim-gamma is most abundantly expressed in small intestine and colon, and in lower levels in spleen, prostate, testis, heart, liver and kidney. **Similarity:** Belongs to the Bcl-2 family. **Database links:** **Entrez Gene:** 10018 Human **Entrez Gene:** 12125 Mouse **Entrez Gene:** 64547 Rat Omim: 603827 Human **SwissProt:** O43521 Human **SwissProt:** O54918 Mouse **SwissProt:** O88498 Rat **Unigene:** 469658 Human **Unigene:** 141083 Mouse **Unigene:** 453214 Mouse **Unigene:** 82709 Rat Bim is a member of the BH3-only subfamily of the Bcl-2 family and is an important apoptosis regulatory protein with pro-apoptotic activity. Bim is widely expressed in normal cells, is of great significance for defending against autoimmunity and maintaining hematopoietic cell homeostasis, and has Tumour suppressor activity. The physiological role of Bim is related to its function in regulating Apoptosis.

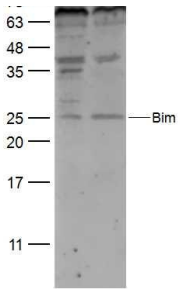
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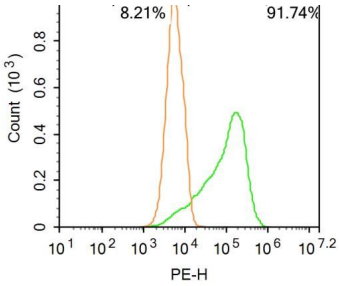
[VALIDATION IMAGES]



Sample:
LOVO(Human) Cell Lysate at 30 ug
Primary: Anti-Bim (SL1488R) at 1/500 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 22 kD
Observed band size: 25 kD



Sample:
Raji(Human) Cell Lysate at 30 ug
Jurkat(Human) Cell Lysate at 30 ug
Primary: Anti-Bim (SL1488R) at 1/500 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 22 kD
Observed band size: 25 kD



Blank control: Raji.
Primary Antibody (green line): Rabbit Anti-Bim antibody (SL1488R)
Dilution: 1μg /10^6 cells;
Isotype Control Antibody (orange line): Rabbit IgG .
Secondary Antibody : Goat anti-rabbit IgG-PE
Dilution: 1μg /test.
Protocol
The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 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 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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