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Bim Antibody

Catalog # ASC10273

Product Information

Application	WB, IF, ICC, E
Primary Accession	O43521
Other Accession	O43521, 18202042
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	22171
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	Bim antibody can be used for detection of Bim by Western blot at 2.5 to 5 g/mL. Antibody can also be used for immunocytochemistry starting at 10 g/mL. For immunofluorescence start at 20 g/mL.

Additional Information

Gene ID	10018
Other Names	Bim Antibody: BAM, BIM, BOD, Bcl-2-like protein 11, Bcl2-interacting mediator of cell death, Bcl2-L-11, BCL2-like 11 (apoptosis facilitator)
Target/Specificity	BCL2L11;
Reconstitution & Storage	Bim antibody can be stored at 4°C for three months and -20°C, 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	Bim Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	BCL2L11
Synonyms	BIM
Function	Induces apoptosis and anoikis. Isoform BimL is more potent than isoform BimEL. Isoform Bim-alpha1, isoform Bim-alpha2 and isoform Bim-alpha3 induce apoptosis, although less potent than isoform BimEL, isoform BimL and isoform BimS. Isoform Bim-gamma induces apoptosis. Isoform Bim-alpha3 induces apoptosis possibly through a caspase- mediated pathway. Isoform BimAC and isoform BimABC lack the ability to induce apoptosis.

Cellular Location	Endomembrane system; Peripheral membrane protein. Note=Associated with intracytoplasmic membranes. [Isoform BimL]: Mitochondrion. [Isoform Bim-alpha1]: Mitochondrion.
Tissue Location	Isoform BimEL, isoform BimL and isoform BimS are the predominant isoforms and are widely expressed with 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.

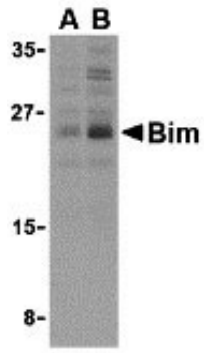
Background

Bim Antibody: Members in the Bcl-2 family are critical regulators of apoptosis by either inhibiting or promoting cell death. Bcl-2 homology 3 (BH3) domain is a potent death domain. BH3 domain containing pro-apoptotic proteins, including Bad, Bax, Bid, Bik, and Hrk, form a growing subclass of the Bcl-2 family. A novel BH3 domain containing protein was recently identified and designated Bim or BOD in human, mouse and rat. Bim/BOD interacts with diverse members in the pro-survival Bcl-2 sub-family including Bcl-2, Bcl-xL and Bcl-w. Bim/BOD induces apoptosis. The messenger RNA of Bim is ubiquitously expressed in multiple tissues and cell lines.

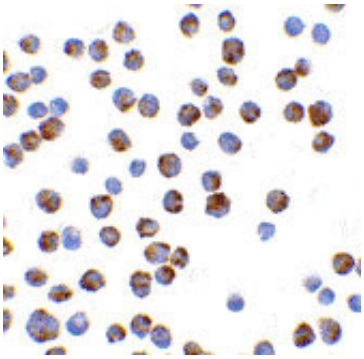
References

O'Connor L, Strasser A, O'Reilly LA, et al. Bim: a novel member of the Bcl-2 family that promotes apoptosis. EMBO J. 1998; 17:384-395.
Hsu SY, Lin P, and Hsueh AJ BOD (Bcl-2-related ovarian death gene) is an ovarian BH3 domain-containing proapoptotic Bcl-2 protein capable of dimerization with diverse antiapoptotic Bcl-2 members. Mol. Endocrinol. 1998; 12:1432-40.

Images

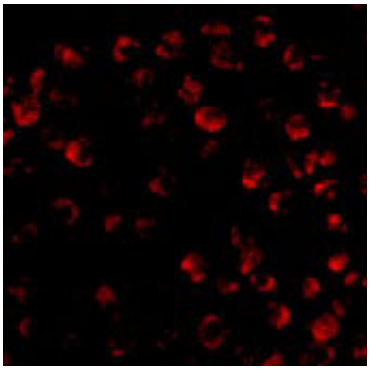


Western blot analysis of Bim in K562 cell lysates with Bim antibody (IN2) at (A) 2.5 and (B) 5 µg/mL.



Immunocyochemistry of BIM in K562 cells with Bim antibody at 10 µg/mL.

Immunofluorescence of Bim in K562 cells with Bim



antibody at 20 µg/mL.