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Bim EL Antibody

Catalog # ASC11677

Product Information

Application	WB, IF, ICC, E
Primary Accession	O43521
Other Accession	NP_619527, 20336315
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	22171
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	Bim EL antibody can be used for detection of Bim EL by Western blot at 1 - 2 g/mL.

Additional Information

Gene ID	10018
Other Names	Bcl-2-like protein 11, Bcl2-L-11, Bcl2-interacting mediator of cell death, BCL2L11, BIM
Target/Specificity	BCL2L11; Bim EL antibody is human and mouse reactive. Multiple isoforms of Bim are known to exist; this antibody only detects the Bim EL isoform.
Reconstitution & Storage	Bim EL antibody can be stored at 4℃ for three months and -20℃, stable for up to one year.
Precautions	Bim EL 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.

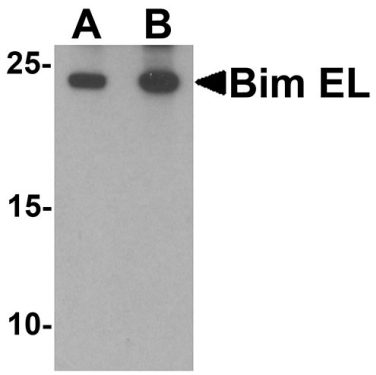
Background

Bim EL 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. Bim, also known as Bcl-2-like protein 11, is a pro-apoptotic member of this family and interacts with diverse members in the pro-survival Bcl-2 sub-family including Bcl-2, Bcl-xL and Bcl-w. Multiple isoforms of Bim are known to exist, with Bim EL being the longest isoform (1,2).

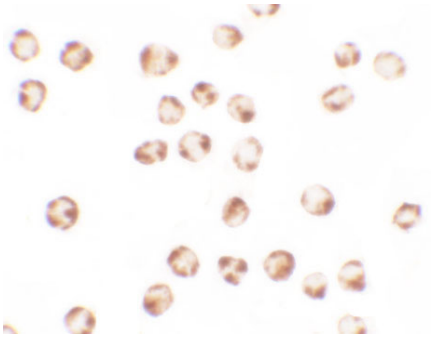
References

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

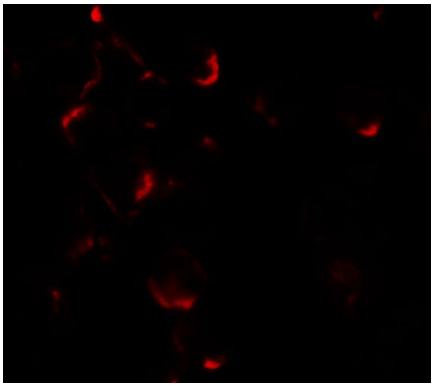


Western blot analysis of Bim in K562 cell lysate with Bim EL antibody at (A) 1 and (B) 2 µg/mL.



Immunocytochemistry of BIM EL inK562 cells with BIM EL antibody at 2.5 µg/ml.

Immunofluorescence of BIM EL in K562 cells with BIM EL antibody at 2.5 µg/ml.



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