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# Bim EL Antibody

Catalog # ASC11677

## Product Information

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| **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

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| **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

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| **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 |

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| | 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. |

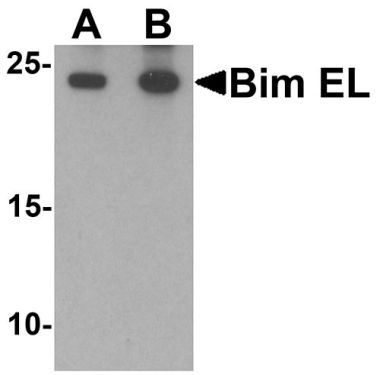
## Background

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).

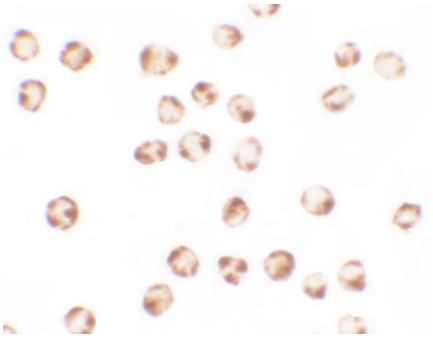
## References

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

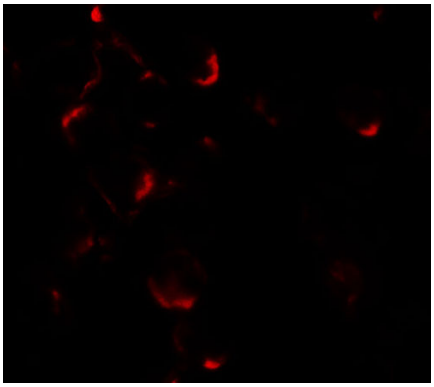



Western blot analysis of Bim in K562 cell lysate with Bim EL antibody at (A) 1 and (B) 2 µg/mL.



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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