

Bim (H-191): sc-11425

BACKGROUND

Pro-apoptotic Bcl-2 family members promote cell death by neutralizing their anti-apoptotic relatives, which otherwise maintain cell viability by regulating caspase activity. Bim belongs to the BH3-only subgroup of Bcl-2 related proteins and exists in three distinct isoforms, Bim_S (short), Bim_L (long) and Bim_{EL} (extra long). ERK1/2 phosphorylates Bim_{EL}, resulting in rapid degradation of the isoform via the proteasome pathway. At least three sites for ERK1/2 phosphorylation exist on Bim_{EL}, whereas ERK1/2 does not effect Bim_S or Bim_L, implying a unique role for Bim_{EL} in cell survival signaling.

CHROMOSOMAL LOCATION

Genetic locus: BCL2L11 (human) mapping to 2q13; Bcl2l11 (mouse) mapping to 2 F1.

SOURCE

Bim (H-191) is a rabbit polyclonal antibody raised against amino acids 4-195 of Bim_{EL} of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Bim (H-191) is recommended for detection of Bim_{EL}, Bim_L and Bim_S of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Bim siRNA (h): sc-29802, Bim siRNA (m): sc-29803, Bim shRNA Plasmid (h): sc-29802-SH, Bim shRNA Plasmid (m): sc-29803-SH, Bim shRNA (h) Lentiviral Particles: sc-29802-V and Bim shRNA (m) Lentiviral Particles: sc-29803-V.

Molecular Weight of Bim_S: 19 kDa.

Molecular Weight of Bim_L: 21 kDa.

Molecular Weight of Bim_{EL}: 24 kDa.

Positive Controls: HuT 78 whole cell lysate: sc-2208 or HL-60 whole cell lysate: sc-2209.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

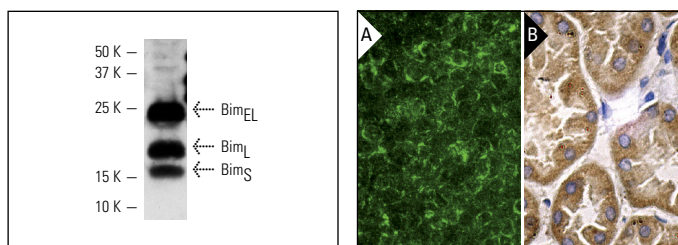
PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

DATA



Bim (FL-198): sc-11425. Western blot analysis of Bim isoform expression in HuT 78 whole cell lysate.

Bim (H-191): sc-11425. Immunofluorescence staining of normal mouse lymph node frozen section showing cytoplasmic staining (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human kidney tissue showing cytoplasmic staining of cells in tubules (B).

SELECT PRODUCT CITATIONS

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- Kim, K.D., et al. 2011. ORAI1 deficiency impairs activated T cell death and enhances T cell survival. *J. Immunol.* 187: 3620-3630.
- Essafi, M., et al. 2011. Cell-penetrating TAT-FOXO3 fusion proteins induce apoptotic cell death in leukemic cells. *Mol. Cancer Ther.* 10: 37-46.
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Try **Bim (H-5): sc-374358** or **Bim (Ham 151-149): sc-130511**, our highly recommended monoclonal alternatives to Bim (H-191). Also, for AC, HRP, FITC, PE, Alexa Fluor[®] 488 and Alexa Fluor[®] 647 conjugates, see **Bim (H-5): sc-374358**.