Bim (N-20): sc-8265



The Power to Overtio

BACKGROUND

Pro-apototic 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_{Fl} in cell survival signaling.

CHROMOSOMAL LOCATION

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

SOURCE

Bim (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of $Bim_{\rm Fl}$ of human origin.

PRODUCT

Each vial contains 100 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-8265 P, ($100 \mu g$ peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Bim (N-20) 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 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Bim (N-20) is also recommended for detection of ${\rm Bim_{EL}}$, ${\rm Bim_{L}}$ and ${\rm Bim_{S}}$ in additional species, including canine, bovine and porcine.

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 Bims: 19 kDa.

Molecular Weight of Bim_I: 21 kDa.

Molecular Weight of BimFI: 24 kDa.

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

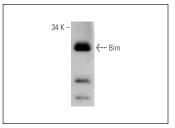
STORAGE

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

RESEARCH USE

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

DATA



Bim (N-20): sc-8265. Western blot analysis of Bim expression in HuT 78 whole cell lysate.

SELECT PRODUCT CITATIONS

- Claessens, Y.E., et al. 2002. In vitro proliferation and differentiation of erythroid progenitors from patients with myelodysplastic syndromes: evidence for Fas-dependent apoptosis. Blood 99: 1594-1601.
- Korhonen, L., et al. 2003. Increase in Bcl-2 phosphorylation and reduced levels of BH3-only Bcl-2 family proteins in kainic acid-mediated neuronal death in the rat brain. Eur. J. Neurosci. 18: 1121-1134.
- Sunters, A., et al. 2006. Paclitaxel-induced nuclear translocation of FOXO3a in breast cancer cells is mediated by c-Jun NH₂-terminal kinase and Akt. Cancer Res. 66: 212-220.
- Bustamante, J., et al. 2007. A novel X-linked recessive form of Mendelian susceptibility to mycobaterial disease. J. Med. Genet. 44: e65.
- 5. Dalle, S., et al. 2009. *In vivo* model of follicular lymphoma resistant to rituximab. Clin. Cancer Res. 15: 851-857.
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- 7. Liu, Z., et al. 2015. Bim and VDAC1 are hierarchically essential for mitochondrial ATF2 mediated cell death. Cancer Cell Int. 15: 34.

PROTOCOLS

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



Try **Bim (H-5): sc-374358** or **Bim (Ham 151-149): sc-130511**, our highly recommended monoclonal alternatives to Bim (N-20). Also, for AC, HRP, FITC, PE, Alexa Fluor[®] 488 and Alexa Fluor[®] 647 conjugates, see **Bim (H-5): sc-374358**.