Product Datasheet

Bim Antibody - BSA Free
NBP1-76963

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Publications: 8

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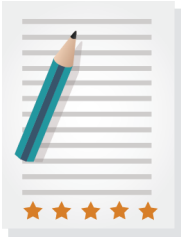
Updated 2/18/2025 v.20.1



NBP1-76963

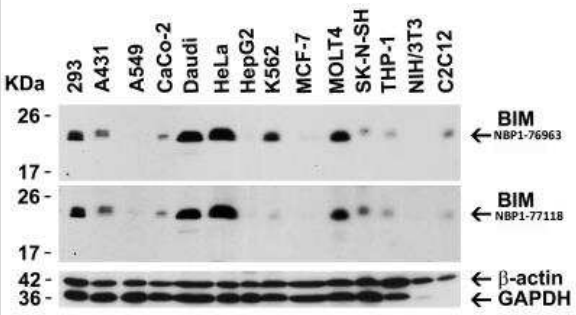
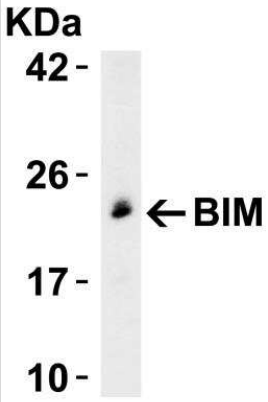
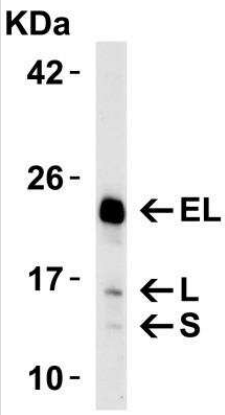
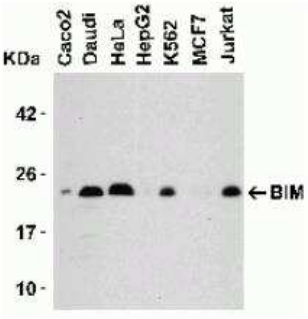
Bim Antibody - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Peptide affinity purified
Buffer	PBS
Target Molecular Weight	22 kDa

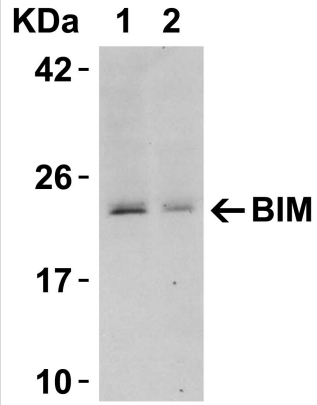
Product Description	
Host	Rabbit
Gene ID	10018
Gene Symbol	BCL2L11
Species	Human, Mouse, Rat
Reactivity Notes	The antigen sequence is identical to that of mouse and differs from that of rat by one amino acid.
Specificity/Sensitivity	Human BIM has 3 isoforms, including isoform EL (198aa, 22kD), isoform L (138aa, 16kD) and isoform S (108aa, 13kD). Mouse BIM has 3 isoforms, including isoform EL (196aa, 22kD), isoform L (140aa, 16kD) and isoform S (110aa, 13kD). Rat BIM has 4 isoforms, including isoform BOD-L (196aa, 22kD), isoform L (140aa, 16kD) and isoform BOD-M (110aa, 13kD). NBP1-76963 can detect all three isoforms.
Immunogen	Antibody was raised against a 20 amino acid peptide corresponding to amino acids near the amino terminus of human Bim. The immunogen is located within the first 50 amino acids of Bim. Amino Acid Squence: AERPPQLRPGAPTSLQTEPQ

Product Application Details	
Applications	Western Blot, Simple Western, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 0.5 ug/mL, Simple Western, ELISA 1:100-1:2000, Immunohistochemistry 20 ug/ml, Immunocytochemistry/ Immunofluorescence 20 ug/ml, Immunohistochemistry-Paraffin 20 ug/ml
Application Notes	See Simple Western Antibody Database for Simple Western validation: tested in HeLa lysate; antibody dilution of 1:50; separated by size

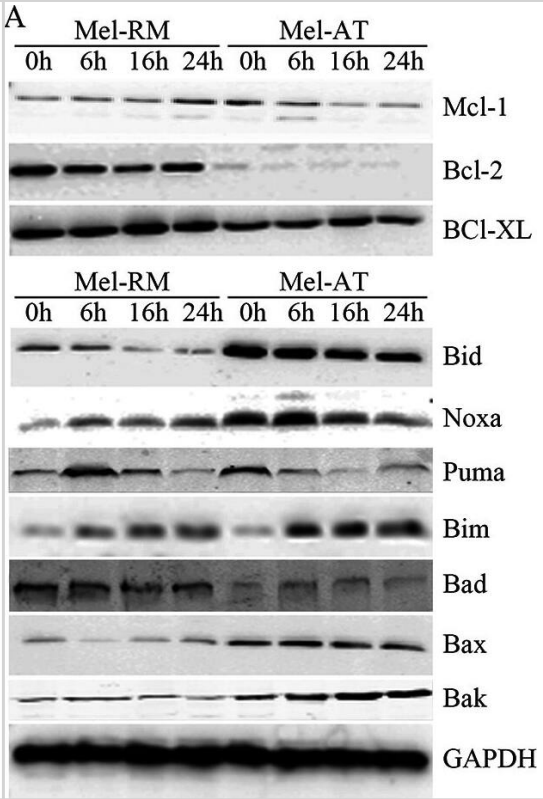
Images

Western Blot: Bim Antibody [NBP1-76963] - Independent Antibody Validation (IAV) via Protein Expression Profile in Cell Lines Loading: 15 ug of lysates per lane. Antibodies: BIM NBP1-76963, (0.5 ug/mL), BIM NBP1-77118, (5 ug/mL), beta-actin (1 ug/mL) and GAPDH (0.02 ug/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.	
Western Blot: Bim Antibody [NBP1-76963] - Western Blot Validation in Rat Myeloma Cell line: Loading: 15 ug of rat myeloma YB2/0 cell lysate per lane. Antibodies: BIM NBP1-76963, (0.5 ug/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate.	
Western Blot: Bim Antibody [NBP1-76963] - Western Blot Validation in HeLa Cells. Loading: 15 ug of lysate per lane. Antibodies: Bim NBP1-76963, (0.5 ug/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate. Bim antibody can detect all three human isoforms, including EL, L and S isoforms.	
Western Blot: Bim Antibody [NBP1-76963] - Western Blot Validation in Human Cell Lines Loading: 15 ug of lysates per lane. Antibodies: BIM NBP1-76963, (0.5 ug/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.	

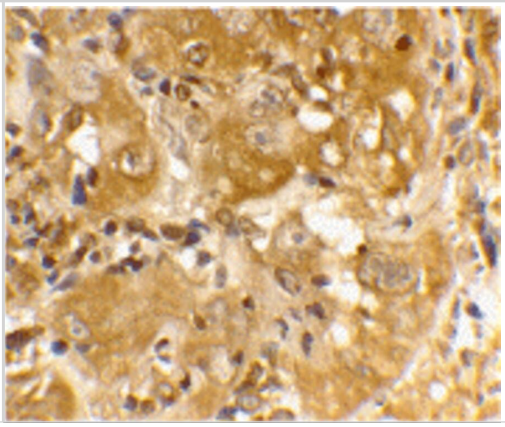
Western Blot: Bim Antibody - BSA Free [NBP1-76963] - Figure 3
Western Blot Validation in Human Tissue Loading: 15 u of lysates per lane. Antibodies: BIM , (0.5 u/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Lane 1: Human thymus Lane 2: Human colon



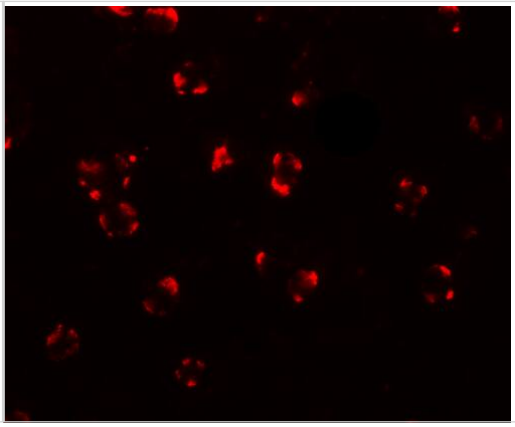
EGb761 regulates Bcl-2 family proteins expression in melanoma cells. (A) EGb761 alters the expression levels of anti- & pro-apoptotic Bcl-2 family proteins in melanoma cell lines. Whole cell lysates from Mel-RM & Mel-AT cells treated with EGb761 (400 μg/ml) for indicated time periods were subjected to Western blot analysis. The data shown are representative of three individual experiments. (B) 5% ethanol as control vehicle did not alter the expression levels of Mcl-1. Mel-AT cells with 5% ethanol for increasing periods. Whole cell lysates from Mel-AT cells treated were subjected to Western blot analysis. The data shown are representative of three individual experiments.(C) Mel-RM & Mel-AT cells were treated with EGb761 (400 μg/ml) or 5% ethanol for the indicated periods. Total RNA was isolated & subjected to real-time PCR analysis for Mcl-1. The relative abundance of mRNA expression treated with 5% ethanol was arbitrarily designated as 1. Columns, mean of three individual experiments; bars, SEM. * Present p<0.05 vs control.(D) Relative expression of anti-apoptosis Bcl-2 family proteins in melanoma cell lines Mel-RM & Mel-AT without treatment. Quantitative expression levels of Mcl-1, Bcl-2 & Bcl-XL were normalized to GAPDH.(E) Relative expression of pro-apoptosis Bcl-2 family proteins in melanoma cell lines Mel-RM & Mel-AT without treatment. Quantitative expression levels of Bax, Bid, Noxa, PUMA, Bim, Bad & Bak were normalized to GAPDH. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/25860257), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Immunohistochemistry: Bim Antibody - BSA Free [NBP1-76963] - **Figure 7 Immunohistochemistry Validation of BIM in Human Skin Cancer Cells**
Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-BIM antibody at 20 u/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4;C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



Immunocytochemistry/ Immunofluorescence: Bim Antibody - BSA Free [NBP1-76963] - Validation of BIM in K562 Cells. Immunofluorescent analysis of 4% paraformaldehyde-fixed K562 cells labeling Bim with at 20 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red).



Publications

Imbaby S, Elkholy SE, Faisal S et al. The GSTP1/MAPKs/BIM/SMAC modulatory actions of nitazoxanide: Bioinformatics and experimental evidence in subcutaneous solid Ehrlich carcinoma-inoculated mice Life sciences 2023-02-22 [PMID: 36822315] (WB, Mouse)

Luan Q, Jin L, Jiang CC et al. RIPK1 regulates survival of human melanoma cells upon endoplasmic reticulum stress through autophagy Autophagy. 2015-05-27 [PMID: 26018731] (WB, Human)

Wang Y, Lv J, Cheng Y et al. Apoptosis induced by Ginkgo biloba (EGb761) in melanoma cells is Mcl-1-dependent PLoS One 2015-04-11 [PMID: 25860257] (WB, Human)

Details:
Citation using the Non-Recombinant Monoclonal format of this antibody.

Wroblewski D, Jiang CC, Croft A et al. OBATOCLAX and ABT-737 induce ER stress responses in human melanoma cells that limit induction of apoptosis PLoS One 2013-12-25 [PMID: 24367627] (WB, Human)

Details:
Citation using the Non-Recombinant Monoclonal format of this antibody.

Castro JE, Prada CE, Aguillon RA et al. Thymidine-phosphorothioate oligonucleotides induce activation and apoptosis of CLL cells independently of CpG motifs or BCL-2 gene interference. Leukemia. 2006-04-01 [PMID: 16498393]

Zhang XD, Gillespie SK, Borrow JM, Hersey P. The histone deacetylase inhibitor suberic bishydroxamate regulates the expression of multiple apoptotic mediators and induces mitochondria-dependent apoptosis of melanoma cells. Mol Cancer Ther. 2004-04-01 [PMID: 15078986]

Zhang LJ, Hao YZ, Hu CS et al. Inhibition of apoptosis facilitates necrosis induced by cisplatin in gastric cancer cells Anticancer Drugs 2008-01-08 [PMID: 18176112]

Details:
Citation using the Non-Recombinant Monoclonal and Biotin format of this antibody.

Ramos SJ, Hernandez JB, Gatzka M, Walsh CM. Enhanced T cell apoptosis within Drak2-deficient mice promotes resistance to autoimmunity. J Immunol. 2008-12-01 [PMID: 19017949] (WB, Mouse)

Details:
WB (mouse splenic T cells), Fig. 3G.

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Products Related to NBP1-76963

NBP1-76963PEP	Bim Antibody Blocking Peptide
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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