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Anti-Bim BCL2L11 Antibody

Catalog Number: A01552

About BCL2L11

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. A novel BH3 domain containing protein was recently identified and designated Bim or BOD in human, mouse and rat. Bim/BOD interacts with diverse members in the pro-survival Bcl-2 sub-family including Bcl-2, Bcl-xL and Bcl-w. Bim/BOD induces apoptosis. The messenger RNA of Bim is ubiquitously expressed in multiple tissues and cell lines.

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Overview

Product Name	Anti-Bim BCL2L11 Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-Bim BCL2L11 Antibody (Catalog # A01552). Tested in ELISA, WB, ICC, IF applications. This antibody reacts with Human, Mouse.
Application	ELISA, IF, ICC, WB
Clonality	Polyclonal
Formulation	Bim Antibody is supplied in PBS containing ≤0.09% sodium azide.
Storage Instructions	Bim antibody can be stored at 4°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	O43521

Technical Details

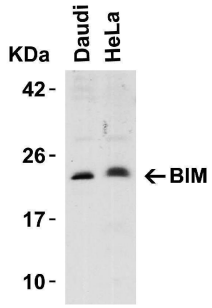
Immunogen	Anti-BIM antibody was raised against a peptide corresponding to amino acids near the center of human BIM. The immunogen is located within amino acids 80-130 of BIM.
Predicted Reactive Species	Rat
Isotype	IgG

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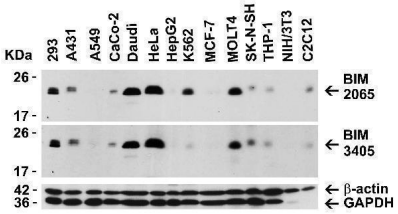
Form	Liquid
Concentration	1 mg/mL
Purification	Bim Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	WB: 5 ug/mL; ICC: 10 ug/mL; IF: 20 ug/mL. Antibody validated: Western Blot in human and mouse samples; Immunocytochemistry in human samples; Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

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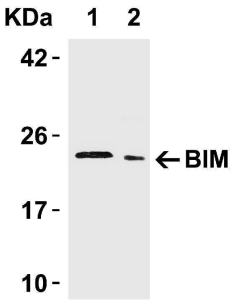
Anti-Bim BCL2L11 Antibody (A01552) Images



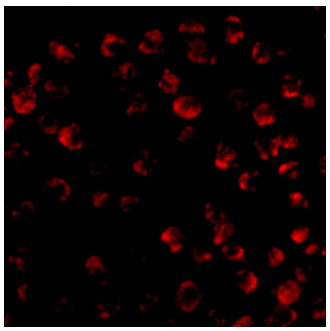
Western Blot Validation in Human Cell Lines Loading: 15 ug of lysates per lane. Antibodies: BIM A01552, (5 ug/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



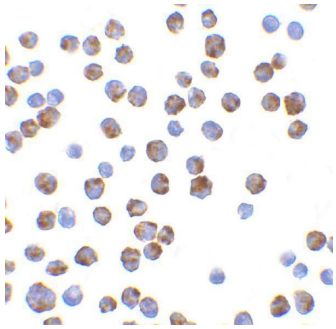
Independent Antibody Validation (IAV) via Protein Expression Profile in Cell Lines Loading: 15 ug of lysates per lane. Antibodies: BIM 2065, (0.5 ug/mL), BIM A01552, (5 ug/mL), beta-actin (1 ug/mL) and GAPDH (0.02 ug/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot Validation in Human Tissue Loading: 15 ug of lysates per lane. Antibodies: BIM A01552, (5 ug/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Lane 1: Human urinary bladder Lane 2: Human pancreas

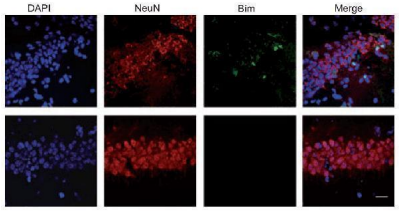


Immunofluorescence Validation of BIM in K562 Cells Immunofluorescent analysis of 4% paraformaldehyde-fixed K562 cells labeling BIM with A01552 at 20 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red).

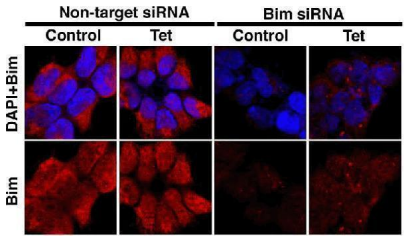


Immunocytochemistry Validation of BIM K562 Cells Immunohistochemical analysis of K562 cells using anti-BIM antibody (A01552) at 10 ug/ml. Cells was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated 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.

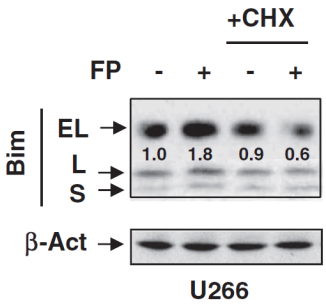
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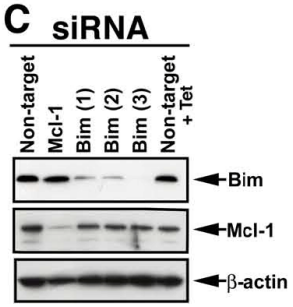
Induced Expression Validation of BIM in Mouse Hippocampus (Tsuchiya et al., 2011) The induction of Bim protein was detected by immunohistochemical analysis of mice after i.h. injection of epoxomicin with anti-BIM antibodies. Sections from epoxomicin-treated animals exhibited cells staining positive for Bim expression within the NeuN-positive population of neurons in the CA1 of the ipsilateral side. In contrast, Bim-positive cells were absent within the NeuNpositive CA1 neurons on the contralateral side.



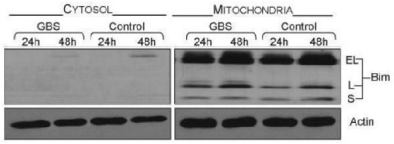
KD Validation of BIM in 293 Cells (Han et al., 2010) Immunofluorescence analysis with anti-BIM antibodies was performed for BIM in 293 cells transfected with control siRNA or BIM siRNA. BIM expression was disrupted after BIM siRNA knockdown.



Regulated Expression Validation of BIM in U266 Cells (Chen et al., 2012) Immunoblot analysis was carried out to monitor protein expression of 3 isoforms (EL, L, and S) of Bim with anti-BIM antibodies. BIM expression was up-regulated by flavopiridol treatment, which was blocked by Cycloheximide in U266 cells.



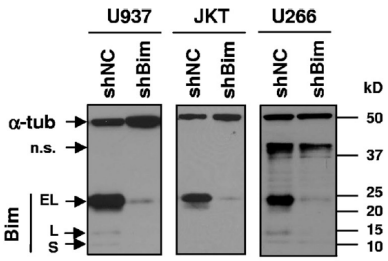
WB KD Validation of BIM in 293 Cells (Han et al., 2010) Western blot analysis with anti-BIM antibodies was performed for BIM in 293 cells transfected with control siRNA or BIM siRNA. BIM expression was disrupted after BIM siRNA knockdown.



Localization Validation of BIM in Mouse Macrophages (Ulett et al., 2005) Immunoblots of subcellular fractions enriched for mitochondria and cytosol were used to determine BIM protein levels with anti-BIM antibodies in J774A cells. BIM is exclusively expressed in mitochondria.

KD Validation of BIM in Human Cell Lines (Chen et al., 2009) Human leukemia (U937 and Jurkat) and myeloma (U266) cells were stably transfected with constructs encoding shBim or a scrambled sequence (shNC). Immunoblotting was preformed to monitor expression of Bim in these cells with anti-BIM antibodies. BIM expression was disrupted after shBIM

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