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Datasheet for 600-401-Z69

BIM Antibody

Overview

Description:	Anti-BIM (RABBIT) Antibody - 600-401-Z69
Item No.:	600-401-Z69
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	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.
Synonyms:	Bim Antibody, BAM, BIM, BOD, Bcl-2-like protein 11, Bcl2-interacting mediator of cell death, Bcl2-L-11, BCL2L11
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	BCL2L11
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-Bim antibody was prepared from whole rabbit serum produced by repeated immunizations with a peptide corresponding to 20 amino acids near the amino terminus of human BIM. The immunogen is located within the first 50 amino acids of BIM.

Purity/Specificity:	Anti-Bim Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with Bim from other sources has not been determined.
Relevant Links:	• UniProtKB - O43521 • GeneID - 10018 • NCBI - NP_619527

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-Bim Antibody has been tested for use in ELISA, Western Blotting, Immunofluorescence, and Immunohistochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 22 kDa in Western Blots of specific cell lysates and tissues. Positive controls used are HEK293 cells, HeLa cells, Daudi cells, and MOLT4 cells.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
IF:	20 µg/mL
IHC:	20 µg/mL
WB:	0.5 µg/mL

Formulation

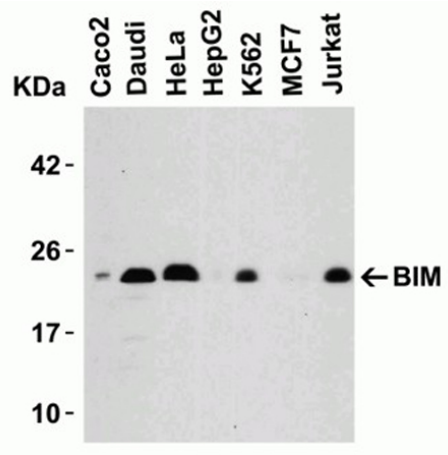
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

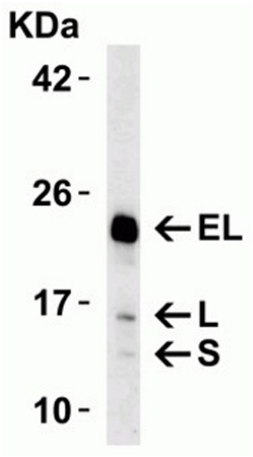
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

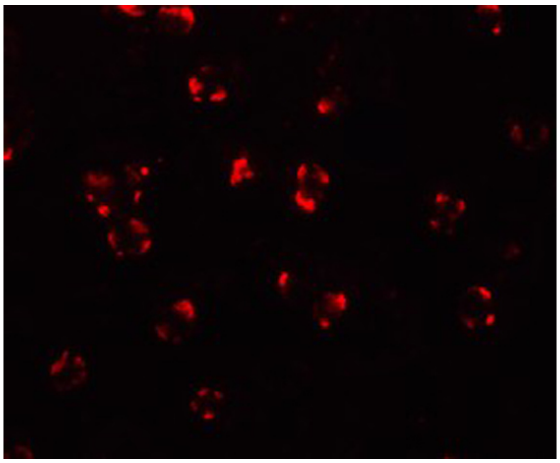
Images



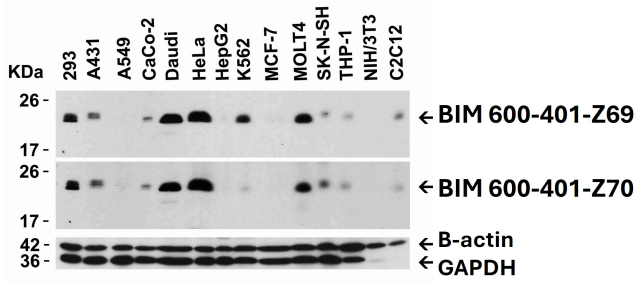
Western Blot
Western Blot Validation using BIM. Loading: 15 µg of human cell lysates per lane. Antibodies: BIM, (0.5 µg/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



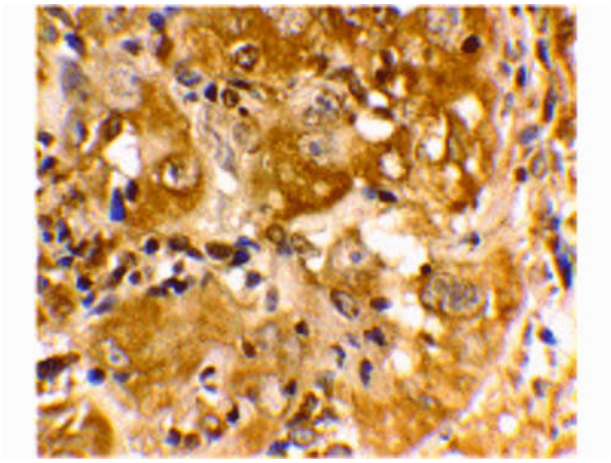
Western Blot
Western Blot Validation using BIM. Loading: 15 µg of lysate per lane. Antibodies: BIM, (0.5 µg/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. BIM can detect all three human isoforms, including EL, L and S isoforms.



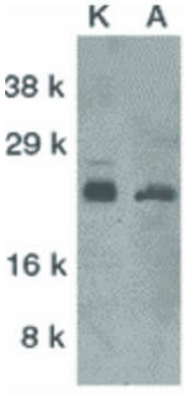
Immunofluorescence Microscopy
Immunofluorescence Validation of BIM. Immunofluorescent analysis of 4% paraformaldehyde-fixed K562 cells labeling Bim at 20 µg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red).



Western Blot
Western Blot using BIM. Loading: 15 µg of lysates per lane. Antibodies: BIM 600-401-Z69, (0.5 µg/mL), BIM 600-401-Z70, (5 µg/mL), beta-actin (1 µg/mL) and GAPDH (0.02 µg/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Immunohistochemistry
Immunohistochemistry of Bim antibody. Tissue: Human skin cancer. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Bim antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: Bim is mitochondrial and endomembranal. Staining: Bim as precipitated brown signal with hematoxylin blue nuclear counterstain.



Western Blot

Western Blot of Bim antibody. Lane 1: K562 whole cell lysate. Lane 2: A549 whole cell lysate. Load: 35 µg per lane. Primary antibody: Bim antibody at 1:400 for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 22.2 kDa, 24 kDa for Bim. Other band(s): Bim splice variants and isoforms.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.