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Datasheet for 200-401-Z48

BCL-G Antibody

Overview

Description:	Anti-BCL-G (RABBIT) Antibody - 200-401-Z48
Item No.:	200-401-Z48
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 Bcl-G. The mRNA of Bcl-G encodes 2 isoforms, Bcl-GL, which is widely expressed in multiple tissues, and Bcl-GS, which is only found in testis. The Bcl-GS protein is predominantly localized to cytoplasmic organelles whereas Bcl-GL was distributed throughout the cytosol. Overexpression of either protein induced apoptosis, although Bcl-GS was far more potent than Bcl-GS. Apoptosis induction was dependent on the BH3 domain and could be suppressed by co-expression with the anti-apoptotic Bcl-XL protein.
Synonyms:	Bcl-G Antibody, BCLG, BCLG, Apoptosis facilitator Bcl-2-like protein 14, Apoptosis regulator Bcl-G, Bcl2-L-14
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	BCL2L14
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-Bcl-G antibody was prepared from whole rabbit serum produced by repeated immunizations with a peptide corresponding to 15 amino acids near the N-terminus of human Bcl-G.
Purity/Specificity:	Anti-Bcl-G Antibody is purified by ion exchange chromatography. Although antibody should react with both isoforms, only the Bcl-GS protein has been observed
Relevant Links:	• UniProtKB - Q9BZR8 • GeneID - 79370 • NCBI - NM_030766

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-Bcl-G Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 37 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:25,000 - 1:100,000
IF:	10 µg/mL
IHC:	2 µg/mL
WB:	2.5 - 5 µg/mL

Formulation

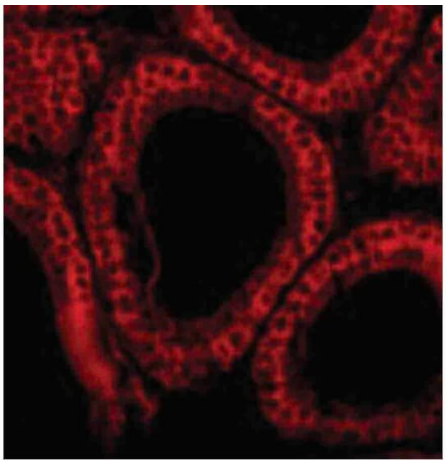
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

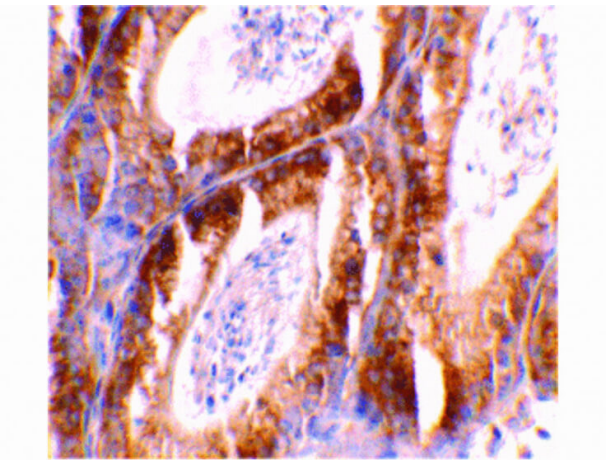
Shipping Condition:	Dry Ice

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.

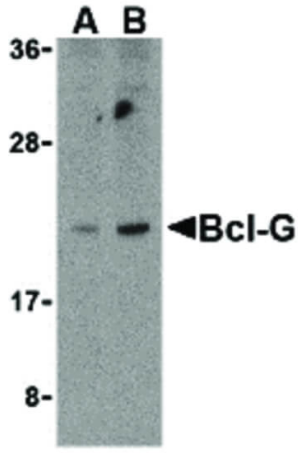
Images



Immunofluorescence Microscopy
Immunofluorescence Microscopy of Bcl-G antibody. Cell Type: mouse testis cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: Bcl-G antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: Bcl-G is cytoplasmic. Staining: Bcl-G as red fluorescent signal.



Immunohistochemistry
Immunohistochemistry of Bcl-G antibody. Tissue: mouse testis tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Bcl-G antibody at 2 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: Bcl-G is cytoplasmic. Staining: Bcl-G as is stained with hematoxylin purple nuclear counterstain.



Western Blot

Western Blot of Bcl-G antibody in U937 cell lysates. Lane 1: U937 at 2.5 µg/ml. Lane 2: U937 at 5 µg/ml. Load: 35 µg per lane. Primary antibody: Bcl-G antibody at designated concentrations 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: 37 kDa, 22 kDa for Bcl-G. Other band(s): Bcl-G 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.