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Datasheet for 200-401-Z48

# BCL-G Antibody

## Overview

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| **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

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| **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

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

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| **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<br>• GeneID - 79370<br>• NCBI - NM_030766 |

## Application Details

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| **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

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| **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

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| **Shipping Condition:** | Dry Ice |

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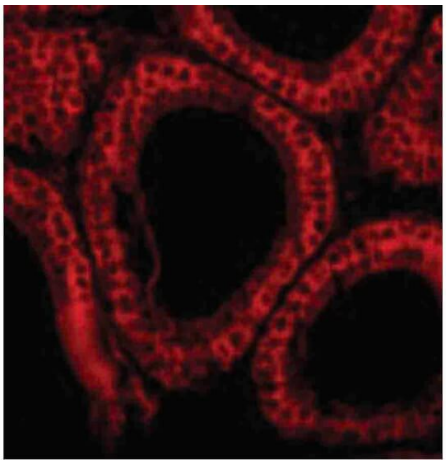
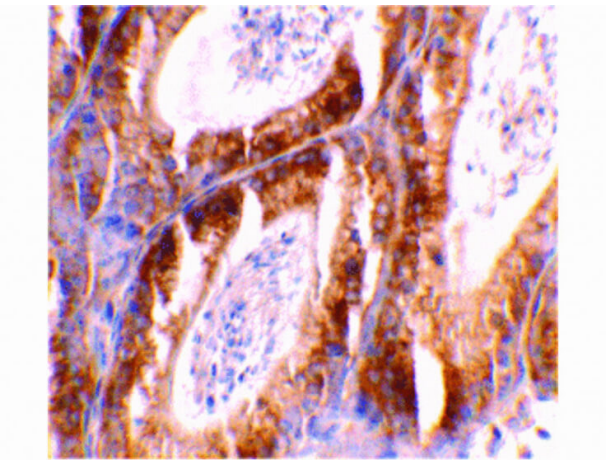
| **Storage Condition:** | Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. |
| **Expiration:** | Expiration date is one (1) year from date of receipt. |

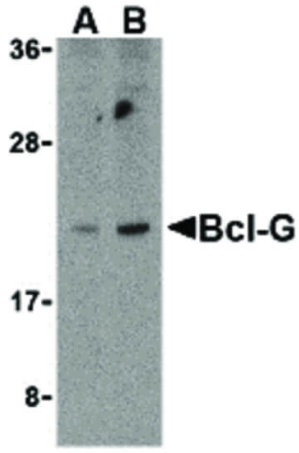
## Images



**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