

**Datasheet for 200-401-222****BCL2 Antibody****Overview**

|                      |                                           |
|----------------------|-------------------------------------------|
| <b>Description:</b>  | Anti-BCL2 (RABBIT) Antibody - 200-401-222 |
| <b>Item No.:</b>     | 200-401-222                               |
| <b>Size:</b>         | 200 µg                                    |
| <b>Applications:</b> | ELISA, WB                                 |
| <b>Reactivity:</b>   | Human, Mouse, Rat, Bovine                 |
| <b>Host Species:</b> | Rabbit                                    |

**Product Details****Background:**

Bcl-2 is a human proto-oncogene located chromosome 18. Its product is an integral membrane protein (also called Bcl-2) located in the membranes of the endoplasmic reticulum (ER), nuclear envelope, and in the outer membranes of the mitochondria. The gene was discovered as the translocated locus in a B-cell leukemia (hence the name). This translocation is also found in some B-cell lymphomas. In the cancerous B cells, the portion of chromosome 18 containing the BCL-2 locus has undergone a reciprocal translocation with the portion of chromosome 14 containing the antibody heavy chain locus. This t(14;18) translocation places the BCL-2 gene close to the heavy chain gene enhancer. This enhancer is very active in B cells and therefore results in high levels of Bcl-2 expression in these cells. High levels of the Bcl-2 protein protect the cells from early death by apoptosis. The Bcl-2 protein suppresses apoptosis by preventing the activation of the caspases that carry out the process. It is conceived that introduction of the Bcl-2 gene into the cells of injured tissue will reduce cell death and improve the clinical outcome of the injury. Anti-BCL-2 Antibody is useful for researchers interested in lymphoma, breast cancer, and apoptosis research.

|                      |                                                                                                                                                                                                                                       |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms:</b>     | rabbit anti-Bcl-2 antibody, Apoptosis regulator Bcl 2 antibody, Apoptosis regulator Bcl2 antibody, AW986256 antibody, B cell CLL/lymphoma 2 antibody, B cell leukemia/lymphoma 2 antibody, B cell lymphoma 2 antibody, Bcl 2 antibody |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                            |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                   |

**Target Details**

|                            |                                                                                                                                                                                                                   |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name:</b>          | BCL2                                                                                                                                                                                                              |
| <b>Reactivity:</b>         | Human, Mouse, Rat, Bovine                                                                                                                                                                                         |
| <b>Immunogen Type:</b>     | Conjugated Peptide                                                                                                                                                                                                |
| <b>Immunogen:</b>          | This purified IgG antibody was prepared from rabbit serum by repeated immunizations with a synthetic peptide corresponding to amino acids 62-76 (RDPVARTSPLQTPAA) of human Bcl-2.                                 |
| <b>Purity/Specificity:</b> | This purified IgG antibody was prepared from monospecific rabbit antiserum by Protein A chromatography. The antibody is directed against human Bcl-2 and is useful in determining its presence in various assays. |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P10415</a></li><li>• <a href="#">NCBI - NP_000624.2</a></li><li>• <a href="#">GeneID - 596</a></li></ul>                                          |

## Application Details

|                             |                                                                                                                                                                                                                                                                      |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tested Applications:</b> | ELISA, WB                                                                                                                                                                                                                                                            |
| <b>Application Note:</b>    | This purified IgG antibody against Human Bcl-2 has been tested for use in ELISA and immunoblotting. The antibody recognizes a 27 kDa band corresponding to human bcl-2. Anti-Bcl-2 shows perinuclear staining of Bcl-2. Reactivity in other immunoassays is unknown. |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                                      |
| <b>ELISA:</b>               | 1:10,000 - 1:50,000                                                                                                                                                                                                                                                  |
| <b>WB:</b>                  | 1:500- 1:2,000                                                                                                                                                                                                                                                       |

## Formulation

|                        |                                                            |
|------------------------|------------------------------------------------------------|
| <b>Physical State:</b> | Liquid (sterile filtered)                                  |
| <b>Concentration:</b>  | 2.0 mg/mL by UV absorbance at 280 nm                       |
| <b>Buffer:</b>         | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| <b>Preservative:</b>   | 0.01% (w/v) Sodium Azide                                   |
| <b>Stabilizer:</b>     | None                                                       |

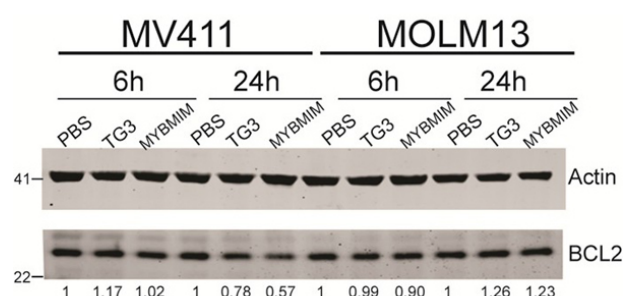
## Shipping & Handling

|                            |         |
|----------------------------|---------|
| <b>Shipping Condition:</b> | 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

BCL2 expression as measured by Western blot in MV411 and MOLM-13 cells, upon treatment with control PBS, 20  $\mu$ M TG3, and 20  $\mu$ M MYBMIM for 6 hours and 24 hours. BCL2 band intensities were normalized to their respective actin bands using ImageJ. BCL2 protein expression is quantified as a fraction of its respective PBS control (numbers below blot).

Supplementary Figure 9. PMID: 29317678



### Western Blot

Anti-Bcl-2 is shown to detect Bcl-2 in GP-E86 cell whole cell lysates. Lanes 1 -10 and 12 are bcl-2 mutants. Lane 11 is wt bcl-2. Lane 13 is an empty vector lysate. Detection occurs using a 1:1,000 dilution of antibody followed by 1:4,000 dilution of HRP Goat-a-Rabbit with visualization via ECL. Film exposure approximately 1'. Other detection systems will yield similar results.

## References

- Ramaswamy et al. Peptidomimetic blockade of MYB in acute myeloid leukemia. *Nature Communications* (2018)

## 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.