

**Datasheet for 600-401-Z16****Beta-2-Microglobulin Antibody****Overview**

|                      |                                                           |
|----------------------|-----------------------------------------------------------|
| <b>Description:</b>  | Anti-Beta-2-Microglobulin (RABBIT) Antibody - 600-401-Z16 |
| <b>Item No.:</b>     | 600-401-Z16                                               |
| <b>Size:</b>         | 100 µg                                                    |
| <b>Applications:</b> | ELISA, IF, IHC, WB                                        |
| <b>Reactivity:</b>   | Human                                                     |
| <b>Host Species:</b> | Rabbit                                                    |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>   | Beta2-microglobulin (B2M) is a principal component of the Major Histocompatibility Complex (MHC) class I molecule, a ternary membrane protein complex that displays fragments derived from proteolyzed cytosolic proteins on the surface of cells for recognition by the surveillance immune system (1,2). B2M is involved in the presentation of peptide antigens to the immune system and plays a critically important role in immune system function (3). It is expressed on nearly all nucleated cells and contains one Ig-like C1-type (immunoglobulin-like) domain (2,3). Mutations in the Beta 2-microglobulin gene can enhance the progression of malignant melanoma and osteoarthritis (4,5). |
| <b>Synonyms:</b>     | B2M Antibody, Beta-2-microglobulin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

**Target Details**

|                        |                                                                                                                                                          |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name:</b>      | B2M                                                                                                                                                      |
| <b>Reactivity:</b>     | Human                                                                                                                                                    |
| <b>Immunogen Type:</b> | Conjugated Peptide                                                                                                                                       |
| <b>Immunogen:</b>      | Anti-B2M antibody was prepared from whole rabbit serum produced by repeated immunizations with a 15 amino acid peptide near the C-terminus of human B2M. |

**Purity/Specificity:** Anti-B2M Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. B2M antibody is human reactive.

**Relevant Links:**

- [UniProtKB - P61769](#)
- [GeneID - 567](#)
- [NCBI - NP\\_004039](#)

## Application Details

**Tested Applications:** ELISA, IF, IHC, WB

**Application Note:** Anti-B2M 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 14 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:** 1:10,000 - 1:20,000

**IF:** User Optimized

**IHC:** User Optimized

**WB:** 1 - 2 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

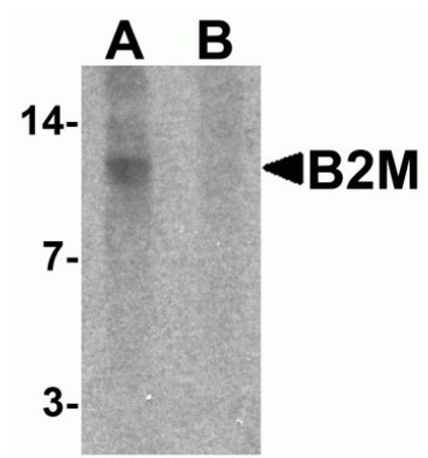
## Shipping & Handling

**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:**

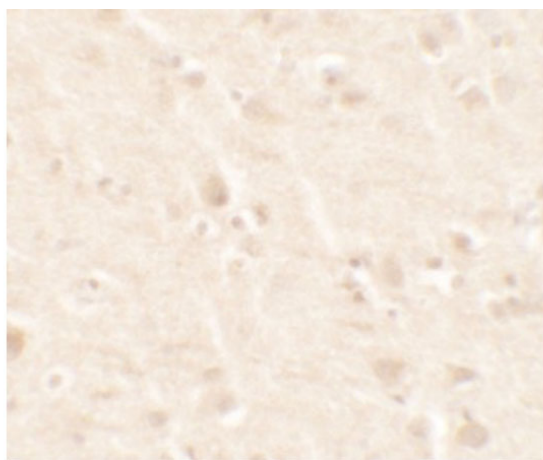
Expiration date is one (1) year from date of receipt.

**Images****Western Blot**

Western blot of Beta 2 Microglobulin.

Load: SK-N-SH cell lysate.

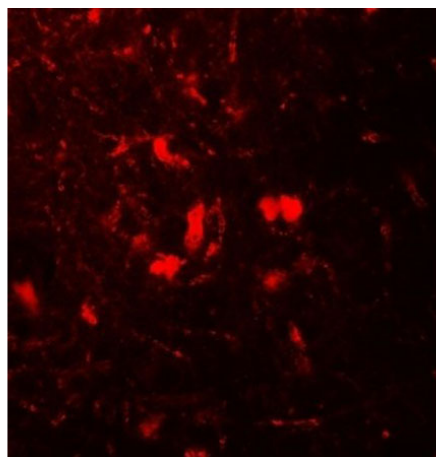
Primary Antibody: B2M antibody at 1  $\mu$ g/mL in (A) the absence and (B) the presence of blocking peptide.

**Immunohistochemistry**

Immunohistochemistry of Beta 2 Microglobulin.

Tissue: mouse brain tissue.

Primary Antibody: B2M antibody 5  $\mu$ g/mL.

**Immunofluorescence Microscopy**

Immunofluorescence of Beta 2 Microglobulin.

Tissue: mouse brain tissue.

Primary Antibody: B2M antibody at 20 µg/mL.

**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.