Datasheet for 600-401-Z16

Beta-2-Microglobulin Antibody

Overview

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

Product Details

Background:	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 osteoarthropathy (4,5).
Synonyms:	B2M Antibody, Beta-2-microglobulin
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	B2M
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	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

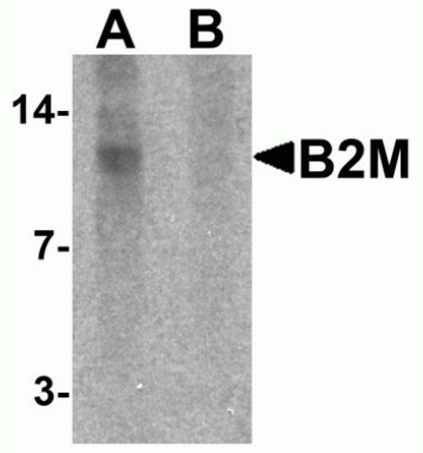
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

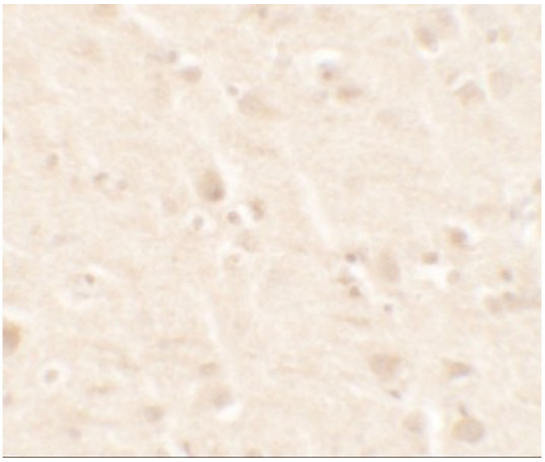
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several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

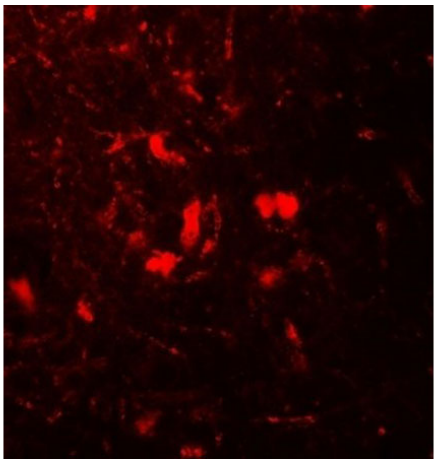
Images



Western Blot
Western blot of Beta 2 Microglobulin.
Load: SK-N-SH cell lysate.
Primary Antibody: B2M antibody at 1 µg/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 µg/mL.



Immunofluorescence Microscopy
Immunofluorescence of Beta 2 Microglobulin.
Tissue: mouse brain tissue.
Primary Antibody: B2M antibody at 20 µg/mL.

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