

Datasheet for ABIN6940416

Recombinant anti-beta-2 Microglobulin antibody

9 Images

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Overview

Quantity:	100 µg
Target:	beta-2 Microglobulin (B2M)
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This beta-2 Microglobulin antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunohistochemistry (IHC), Immunofluorescence (IF), Staining Methods (StM)

Product Details

Immunogen:	Recombinant human full-length B2M protein
Clone:	RB2M-961
Isotype:	IgG2b kappa
Specificity:	Recognizes a protein of 12 kDa, identified as beta-2 microglobulin. Major histocompatibility complex (MHC) class 1 Molecules bind to antigens for presentation on the surface of cells. The proteasome is responsible for producing these antigens from the components of foreign pathogens. MHC class 1 Molecules consist of an alpha heavy chain that contains three subdomains (alpha1, alpha2, alpha3) and a non-covalent associating light chain, known as beta-2-Microglobulin. Beta-2-Microglobulin associates with the alpha3 subdomain of the alpha heavy chain and forms an immunoglobulin domain-like structure that mediates proper folding

Product Details

and expression of MHC class 1 Molecules. The alpha1 and alpha2 domains of the alpha heavy chain form the peptide antigen-binding cleft. Mutations in the beta-2-Microglobulin gene can enhance the progression of malignant melanoma phenotypes.

Purification: Purified by Protein A/G

Target Details

Target:	beta-2 Microglobulin (B2M)
Alternative Name:	B2M (B2M Products)
Molecular Weight:	12kDa
Gene ID:	567
UniProt:	P61769
Pathways:	TCR Signaling , Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process

Application Details

Application Notes:	Positive Control: HL-60 or HeLa cells. Melanomas and Lymphoma. Carcinoma of Stomach, Cervix, Endometrial, Kidney or Colon. Known Application: Flow Cytometry (0.5-1 µg/million cells), Immunofluorescence (0.5-1 µg/mL), Immunohistochemistry (Formalin-fixed) (0.5-1 µg/mL for 30 minutes at RT) (Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

Handling

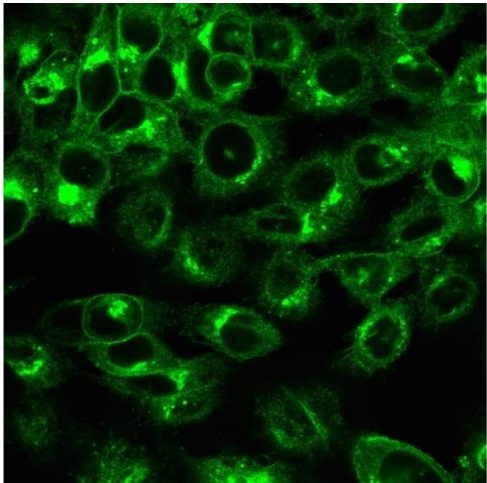
Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C

Handling

Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months

Images

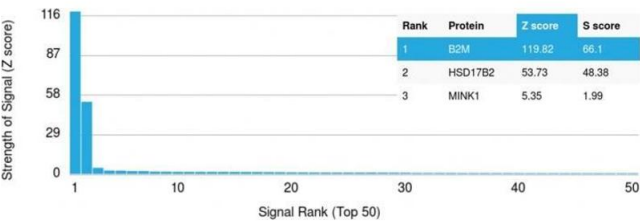


Immunofluorescence

Image 1. Immunofluorescence Analysis of HeLa cells labeling with Beta-2-Microglobulin Mouse Recombinant Monoclonal Antibody (rB2M/961) followed by Goat anti-mouse IgG-CF488 (Green).

Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using Beta-2 Microglobulin Mouse Recombinant Monoclonal Antibody (rB2M/961). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to



29.

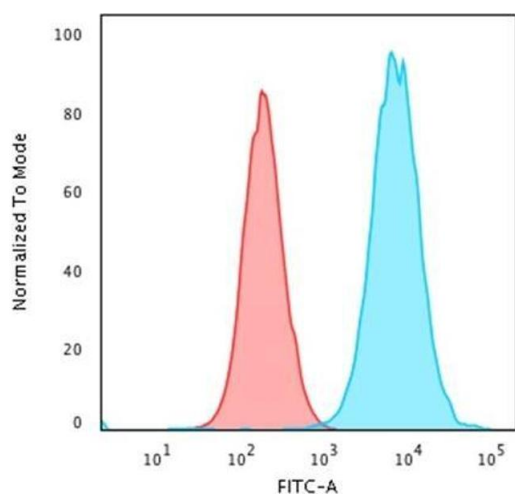
**Flow Cytometry**

Image 3. Flow Cytometric Analysis of PFA-fixed HeLa cells using Beta-2-Microglobulin Mouse Recombinant MAb (rB2M/961) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red)

Please check the [product details page](#) for more images. Overall 9 images are available for ABIN6940416.