

Beta-2 Microglobulin (Renal Failure & Tumor Marker) Antibody

Mouse Monoclonal Antibody [Clone BBM.1]

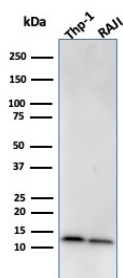
| Catalog No | Format | Size |
|----------------|-----------------------------------|----------|
| 567-MSM3-P0 | Purified Ab with BSA and Azide | 200ug/ml |
| 567-MSM3-P1 | Purified Ab with BSA and Azide | 200ug/ml |
| 567-MSM3-P1ABX | Purified Ab WITHOUT BSA and Azide | 1.0mg/ml |

| Applications | Tested Dillution |
|----------------------------|---------------------|
| Flow Cytometry (Flow) | 1-2ug/million cells |
| Immunofluorescence (IF) | 1-3ug/ml |
| Immunohistochemistry (IHC) | 1-2ug/ml |
| Western Blot (WB) | 2-4ug/ml |

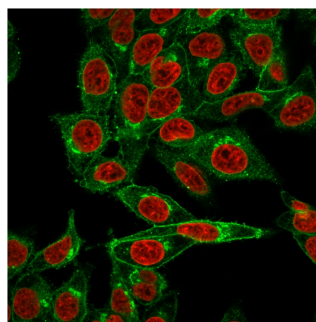
| Product Details | |
|------------------------|---|
| Clone | BBM.1 |
| Gene Name | B2M |
| Immunogen | MOLT-4 human T cell line |
| Host | Mouse |
| Clonality | Monoclonal |
| Isotype / Light Chain | IgG2b / Kappa |
| Mol. Weight of Antigen | 12kDa |
| Cellular Localization | Cell surface, Secreted |
| Species Reactivity | Human, Non-Human primates |
| Positive Control | Cervix, Endometrial, HL-60 or HeLa cells. Melanomas and Lymphoma. Carcinoma of Stomach, Kidney or Colon., Raji, THP-1 |

**Optimal dilution for a specific application should be determined.*

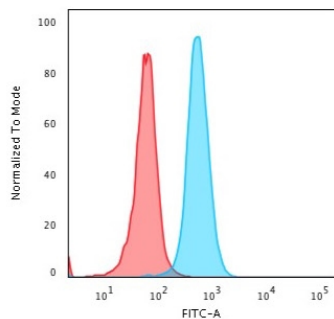
Product Images for Beta-2 Microglobulin (Renal Failure & Tumor Marker) Antibody



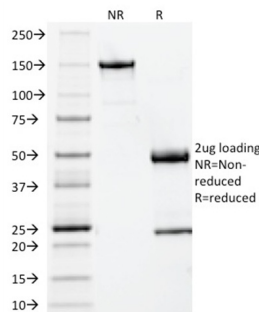
Western Blot Analysis of human THP-1 and Raji cell lysate using Beta-2-Microglobulin Mouse Monoclonal Antibody (BBM.1)



Immunofluorescent staining of HeLa cells. Beta-2-Microglobulin Mouse Monoclonal Antibody (BBM.1) followed by goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Reddot (Red)



Flow Cytometric Analysis of PFA fixed HeLa cells using Beta-2-Microglobulin Mouse Monoclonal Antibody (BBM.1); followed by goat anti-mouse IgG-CF488 (Blue); Isotype Control (Red).



SDS-PAGE Analysis of Purified Beta-2-Microglobulin Mouse Monoclonal Antibody (BBM.1). Confirmation of Integrity and Purity of Antibody.

Specificity & Comments

Recognizes a protein of 12kDa, identified as 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 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.

Research Areas

Cancer, Cardiovascular, Cytokine Signaling, Immuno Oncology, Immunology, Infectious Disease

Known Applications & Suggested Dilutions

Flow Cytometry (1-2ug/million cells) | Western Blot (1-2ug/ml) | Immunofluorescence (1-4ug/ml) | Immunohistochemistry (Frozen) (1-2ug/ml for 30 minutes at RT) Optimal dilution for a specific application should be determined.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.

There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

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.