

Anti-beta 2 Microglobulin Antibody [BBM.1] (A249750)

Specifications:

| | |
|------------------------|--|
| Name: | Anti-beta 2 Microglobulin Antibody [BBM.1] |
| Description: | Mouse monoclonal [BBM.1] antibody to beta 2 Microglobulin. |
| Specificity: | This antibody 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. |
| Applications: | Flow Cytometry, WB, IF, IHC-Fr |
| Recommended Dilutions: | Flow Cytometry: 1-2 µg/million cells, WB: 1-2 µg/ml, IF: 1-4 µg/ml, IHC-Fr: 1-2 µg/ml |
| Reactivity: | Human, Non-Human Primates |
| Immunogen: | MOLT-4 human T cell line. |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Clone ID: | BBM.1 |
| Isotype: | IgG2b |
| Light Chains: | kappa |
| Conjugate: | Unconjugated |
| Purification: | Protein A/G chromatography. |
| Concentration: | 200 µg/ml |
| Product Form: | Liquid |
| Formulation: | Supplied in 10mM Phosphate Buffered Saline with 0.05% BSA and 0.05% Sodium Azide. |
| Storage: | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. |

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Specifications continued:

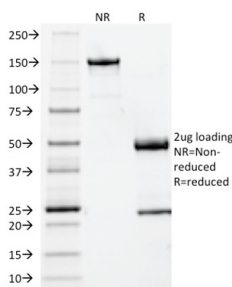
General Notes:

This monoclonal antibody is also available in a different formulation without BSA and Sodium Azide - Anti-beta 2 Microglobulin Antibody [BBM.1] - BSA and Azide free (A252930).

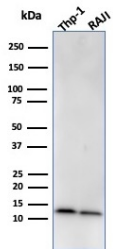
Disclaimer:

This product is for research use only. It is not intended for diagnostic or therapeutic use.

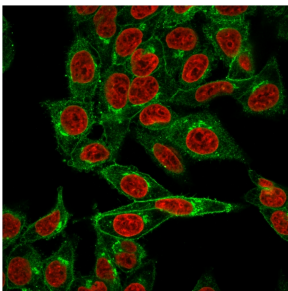
Images:



SDS-PAGE analysis of Anti-beta 2 Microglobulin Antibody [BBM.1] under non-reduced and reduced conditions; showing intact IgG and intact heavy and light chains, respectively. SDS-PAGE analysis confirms the integrity and purity of the antibody.



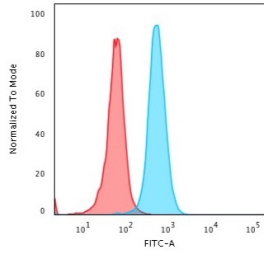
Western blot analysis of human THP-1 and Raji cell lysates using Anti-beta 2 Microglobulin Antibody [BBM.1].



Immunofluorescent analysis of HeLa cells stained with Anti-beta 2 Microglobulin Antibody [BBM.1] followed by Goat Anti-Mouse IgG (CF® 488) (Green). The nuclear counterstain is RedDot (Red).

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Images continued:



Flow cytometric analysis of PFA fixed HeLa cells using Anti-beta 2 Microglobulin Antibody [BBM.1] followed by Goat Anti-Mouse IgG (CF® 488) (Blue). Isotype Control (Red).