

Anti-beta 2 Microglobulin Antibody [BBM.1] - BSA and Azide free (A252930)

Specifications:

Name:	Anti-beta 2 Microglobulin Antibody [BBM.1] - BSA and Azide free
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:	1 mg/ml
Product Form:	Liquid
Formulation:	Supplied in 10mM Phosphate Buffered Saline; without Sodium Azide and carrier free.
Storage:	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

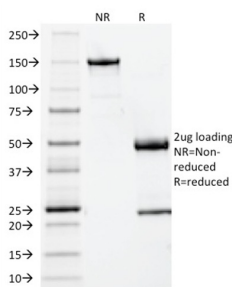
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Specifications continued:

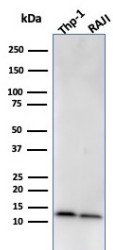
General Notes: This monoclonal antibody is also available in a different formulation with BSA and Sodium Azide - Anti-beta 2 Microglobulin Antibody [BBM.1] (A249750).

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

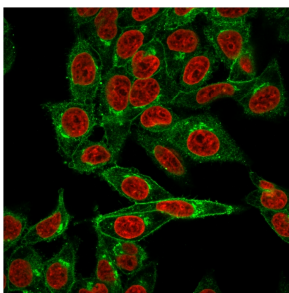
Images:



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.



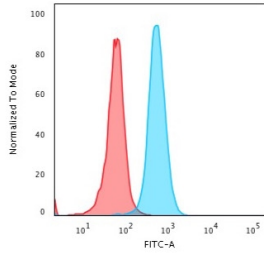
Western blot analysis of human THP-1 and Raji cell lysates using Anti-beta 2 Microglobulin Antibody [BBM.1].



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).