

## 36-3048: Anti-Beta-2 Microglobulin (Renal Failure & Tumor Marker) Monoclonal Antibody(Clone: BBM.1)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	BBM.1
<b>Application :</b>	FACS,WB,IF,IHC
<b>Reactivity :</b>	Human
<b>Gene :</b>	B2M
<b>Gene ID :</b>	567
<b>Uniprot ID :</b>	P61769
<b>Alternative Name :</b>	B2M; Beta 2 microglobin; Beta 2 microglobulin; Beta chain of MHC class I molecules; Beta-2-microglobulin form pl 5.3; Hdcma22p
<b>Isotype :</b>	Mouse IgG2b, kappa
<b>Immunogen Information :</b>	MOLT-4 human T cell line

### Description

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.

### Product Info

<b>Amount :</b>	20 µg / 100 µg
<b>Content :</b>	200 µg/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.
<b>Storage condition :</b>	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.

### Application Note

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)

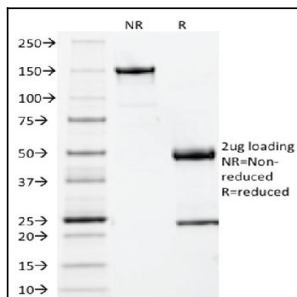


Fig. 1: SDS-PAGE Analysis Purified Beta-2-Microglobulin Mouse Monoclonal Antibody (BBM.1). Confirmation of Integrity and Purity of Antibody.

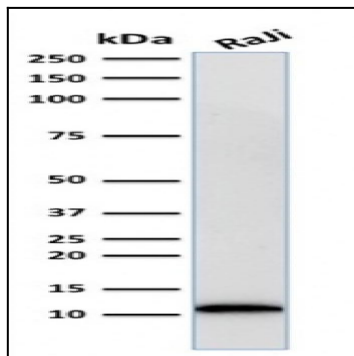


Fig. 2: Western Blot Analysis of human Raji cell lysate using Beta-2-Microglobulin Mouse Monoclonal Antibody (BBM.1)

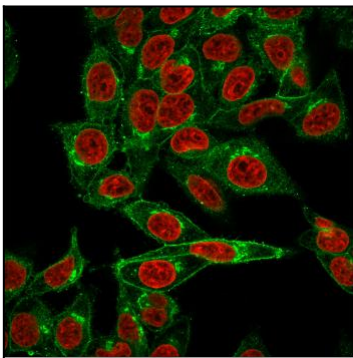


Fig. 3: Immunofluorescent staining of HeLa cells. Beta-2-Microglobulin Mouse Monoclonal Antibody (BBM.1) followed by goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Reddot (Red)