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

Clonality :	Monoclonal
Clone Name :	BBM.1
Application :	FACS,WB,IF,IHC
Reactivity :	Human
Gene :	B2M
Gene ID :	567
Uniprot ID :	P61769
Alternative Name :	B2M; Beta 2 microglobin; Beta 2 microglobulin; Beta chain of MHC class I molecules; Beta-2-microglobulin form pI 5.3; Hdcma22p
Isotype :	Mouse IgG2b, kappa
Immunogen Information :	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

Amount :	20 µg / 100 µg
Content :	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.
Storage condition :	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)

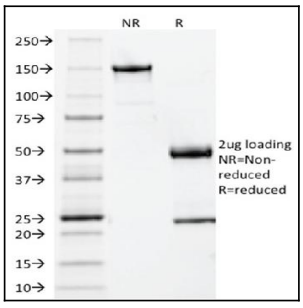

Fig. 1: SDS-PAGE Analysis Purified Beta-2-Microglobulin Mouse Monoclonal Antibody (BBM.1). Confirmation of Integrity and Purity of Antibody.

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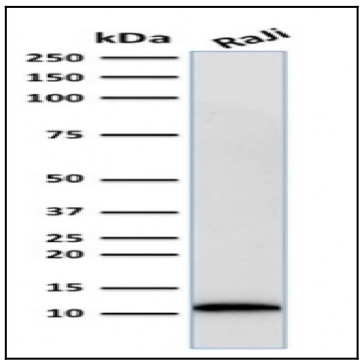

Fig. 2: Western Blot Analysis of human Raji cell lysate using Beta-2-Microglobulin Mouse Monoclonal Antibody (BBM.1)

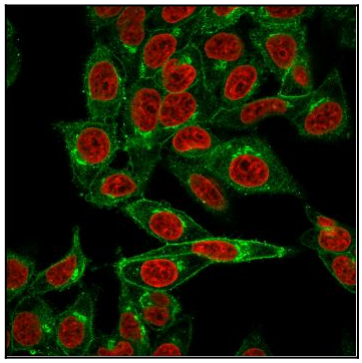

Fig. 3: Immunofluorescent staining of HeLa cells. Beta-2-Microglobulin Mouse Monoclonal Antibody (BBM.1) followed by goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Reddot (Red)

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