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12-1082: Anti-Beta-2 Microglobulin (Renal Failure & Tumor Marker) Recombinant Rabbit Monoclonal Antibody (Clone:B2M/1857R)

Clonality :	Monoclonal
Clone Name :	B2M/1857R
Application :	ELISA,FACS,WB,IHC
Reactivity :	Human
Gene :	B2M
Gene ID :	567
Uniprot ID :	P61769
Format :	Purified
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 :	Rabbit IgG
Immunogen Information :	Recombinant full-length human B2M protein

Description

Recognizes a protein of 12kDa, identified as beta-2 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
Purification :	Protein A/G
Content :	200µg/ml of recombinant MAb purified 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

ELISA (For coating, order antibody without BSA);Flow Cytometry (1-2Ã□Âµg/million cells); Western Blot (1-2Ã□Âµg/ml),Immunohistochemistry (Formalin-fixed) (1-2Ã□Âµg/ml for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);

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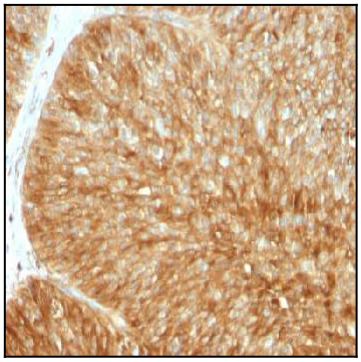

Figure 1: Formalin-fixed, paraffin-embedded human Bladder Carcinoma stained with Beta-2-Microglobulin Rabbit Recombinant Monoclonal Antibody (B2M/1857R).

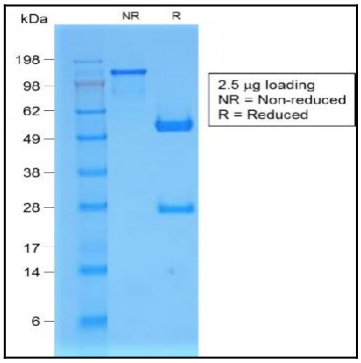

Figure 2: SDS-PAGE Analysis of Purified Beta-2-Microglobulin Rabbit Recombinant Monoclonal Antibody (B2M/1857R).