

## 12-1083: Anti-Beta-2 Microglobulin (Renal Failure & Tumor Marker) Recombinant Mouse Monoclonal Antibody (Clone:rB2M/961)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	rB2M/961
<b>Application :</b>	FACS,IF,WB,IHC
<b>Reactivity :</b>	Human
<b>Gene :</b>	B2M
<b>Gene ID :</b>	567
<b>Uniprot ID :</b>	P61769
<b>Format :</b>	Purified
<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>	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 alphaheavy 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 alphaheavy 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 alphaheavy 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>Purification :</b>	Protein A/G
<b>Content :</b>	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.
<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 (1-2 $\times$ 10<sup>5</sup> µg/million cells); Immunofluorescence (1-2 $\times$ 10<sup>5</sup> µg/ml); Western Blot (1-2 $\times$ 10<sup>5</sup> µg/ml); Immunohistochemistry (Formalin-fixed) (1-2 $\times$ 10<sup>5</sup> µg/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°C followed by cooling at RT for 20 minutes);

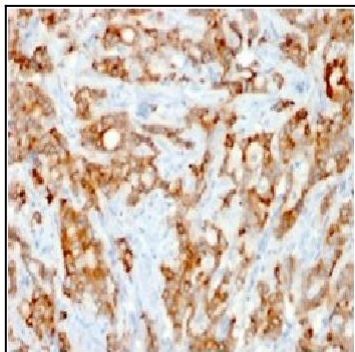


Figure 1: Formalin-fixed, paraffin-embedded human Lung Carcinoma stained with Beta-2-Microglobulin Mouse Recombinant Monoclonal Antibody (rB2M/961).

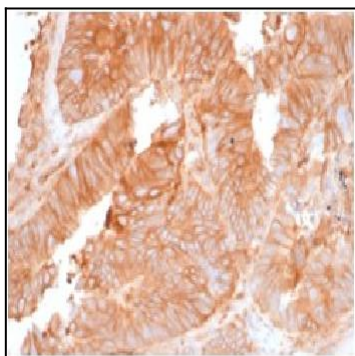


Figure 2: Formalin-fixed, paraffin-embedded Human Colon stained with Beta-2-Microglobulin Mouse Recombinant Monoclonal Antibody (rB2M/961).

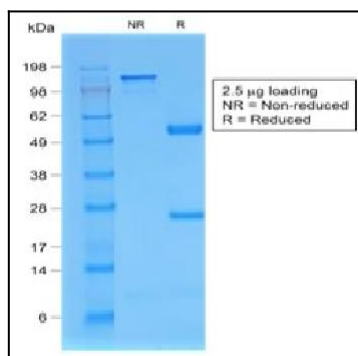


Figure 3: SDS-PAGE Analysis Beta-2-Microglobulin Mouse Recombinant Monoclonal Antibody (rB2M/961).