

## Beta-2 Microglobulin (Renal Failure & Tumor Marker) Antibody

Mouse Monoclonal Antibody [Clone B2M/961]

Catalog No	Format	Size
567-MSM5-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
567-MSM5-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
567-MSM5-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

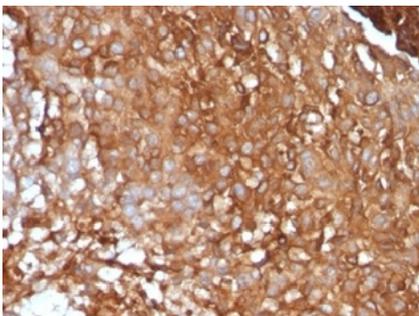
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

### Product Details

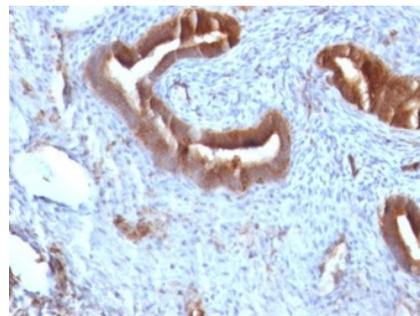
<b>Clone</b>	B2M/961
<b>Gene Name</b>	B2M
<b>Immunogen</b>	Full length recombinant human B2M protein
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG2b / Kappa
<b>Mol. Weight of Antigen</b>	12kDa
<b>Cellular Localization</b>	Cell surface, Secreted
<b>Species Reactivity</b>	Human, Non-Human primates
<b>Positive Control</b>	Cervix, Endometrial, HL-60 or HeLa cells. Carcinoma of Stomach, Kidney or Colon., Raji, THP-1

\*Optimal dilution for a specific application should be determined.

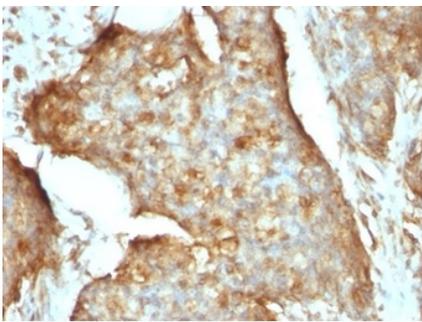
### Product Images for Beta-2 Microglobulin (Renal Failure & Tumor Marker) Antibody



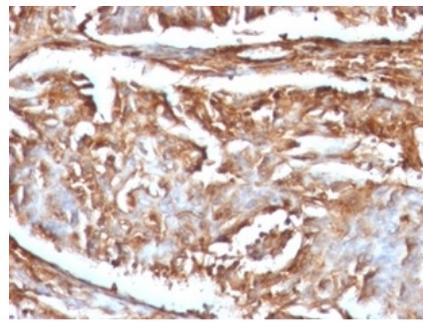
Formalin-fixed, paraffin-embedded human melanoma stained with Beta-2-Microglobulin Mouse Monoclonal Antibody (B2M/961).



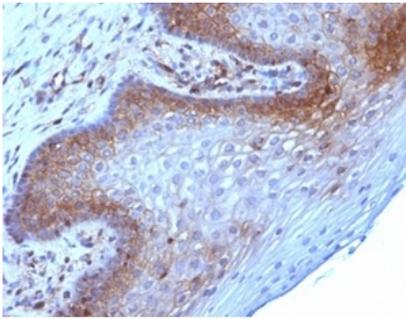
Formalin-fixed, paraffin-embedded human endometrial carcinoma stained with Beta-2-Microglobulin Mouse Monoclonal Antibody (B2M/961).



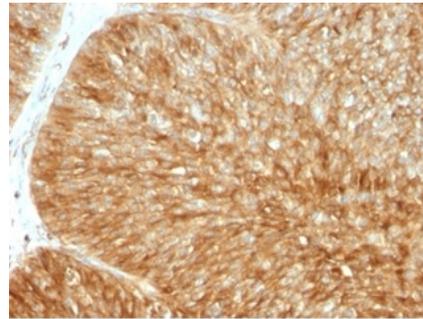
Formalin-fixed, paraffin-embedded human gastric carcinoma stained with Beta-2-Microglobulin Mouse Monoclonal Antibody (B2M/961).



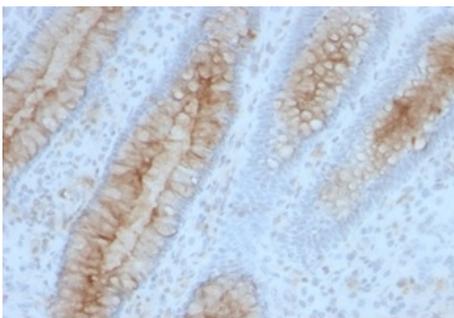
Formalin-fixed, paraffin-embedded human renal cell carcinoma stained with Beta-2-Microglobulin Mouse Monoclonal Antibody (B2M/961).



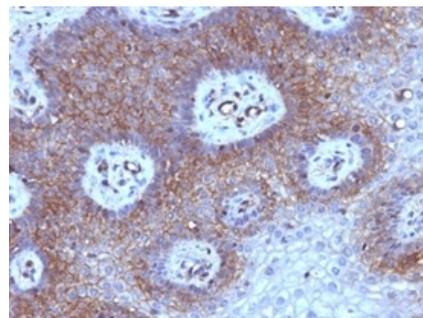
Formalin-fixed, paraffin-embedded human cervical carcinoma stained with Beta-2-Microglobulin Mouse Monoclonal Antibody (B2M/961).



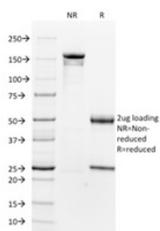
Formalin-fixed, paraffin-embedded human bladder carcinoma stained with Beta-2-Microglobulin Mouse Monoclonal Antibody (B2M/961).



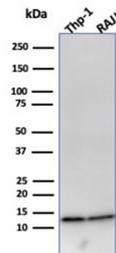
Formalin-fixed, paraffin-embedded human colon carcinoma stained with Beta-2-Microglobulin Mouse Monoclonal Antibody (B2M/961).



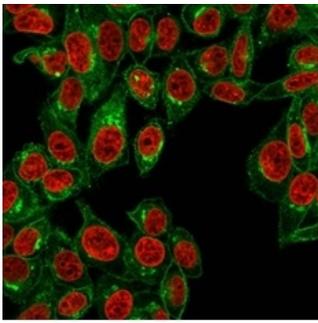
Formalin-fixed, paraffin-embedded human cervical carcinoma stained with Beta-2-Microglobulin Mouse Monoclonal Antibody (B2M/961).



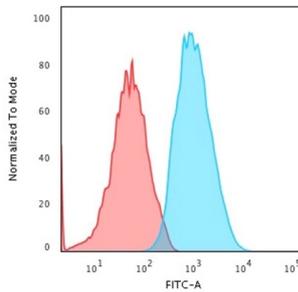
SDS-PAGE Analysis Purified Beta-2-Microglobulin Mouse Monoclonal Antibody (B2M/961). Confirmation of Integrity and Purity of Antibody.



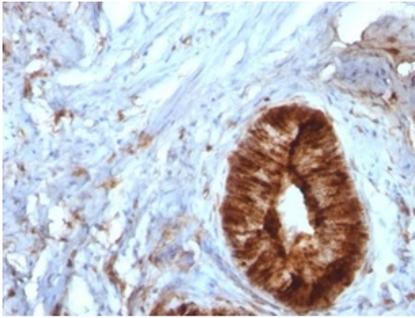
Western Blot Analysis of THP-1 and Raji cell lysates using Beta-2-Microglobulin Mouse Monoclonal Antibody (B2M/961).



Immunofluorescence Analysis of HeLa cells labeling with Beta-2-Microglobulin Mouse Monoclonal Antibody (B2M/961) followed by goat anti-mouse IgG-CF488 (green). nuclei stained with RedDot (red).



Flow Cytometric Analysis of human HeLa cells. Beta-2-Microglobulin Mouse Monoclonal Antibody (B2M/961) followed by goat anti-mouse IgG-CF488 (blue); isotype control (red).



Formalin-fixed, paraffin-embedded human cervical carcinoma stained with Beta-2-Microglobulin Mouse Monoclonal Antibody (B2M/961).

### Specificity & Comments

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.

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

### Supplied As

200ug/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 and Stability

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. No MSDS required.

### Research Areas

Cardiovascular, Cytokine Signaling, Immunology, Infectious Disease