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

Mouse Monoclonal Antibody [Clone rB2M/7279]

Catalog No	Format	Size
567-MSM9-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
567-MSM9-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
567-MSM9-P1ABX	Purified Ab WITHOUT BSA or Azide at 1.0mg/ml	100 ug

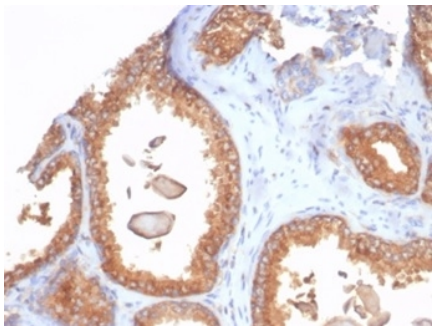
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

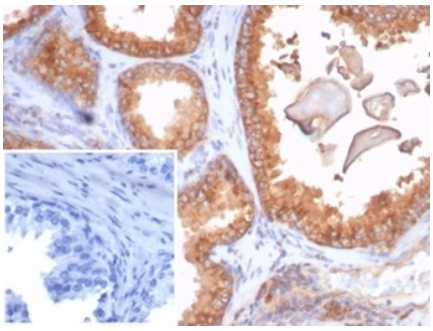
Clone	rB2M/7279
Immunogen	Recombinant full-length human Beta-2-Microglobulin (B2M) protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	13.71kDa
Cellular Localization	Cell surface, Secreted
Species Reactivity	Human
Positive Control	Cervix, Endometrial, HL-60 or HeLa cells. Human carcinomas of stomach, Kidney or Colon., Raji

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

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



Formalin-fixed, paraffin-embedded human prostate stained with B2M Recombinant Mouse Monoclonal Antibody (rB2M/7279). HIER: Tris/EDTA, pH9.0, 45min. 2°C: HRP-polymer, 30min. DAB, 5min.



Formalin-fixed, paraffin-embedded human prostate stained with B2M Recombinant Mouse Monoclonal Antibody (rB2M/7279). Inset: PBS instead of primary antibody; secondary only negative control.

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.

Supplied As

200ug/ml of Ab produced in a mammalian-based expression system. 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.

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.