

# Product Datasheet

## beta 2-Microglobulin Antibody (B2M/961) - Azide and BSA Free NBP2-47704-0.1mg

Unit Size: 0.1 mg

Store at -20 to -80C. Avoid freeze-thaw cycles.

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**NBP2-47704-0.1mg**

beta 2-Microglobulin Antibody (B2M/961) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at -20 to -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	B2M/961
Preservative	No Preservative
Isotype	IgG2b Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS
Target Molecular Weight	12 kDa

Product Description	
Description	1.0 mg/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS WITHOUT BSA & azide. Also available at 200 ug/ml WITH BSA & azide (NBP2-44471).  Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80 C.
Host	Mouse
Gene ID	567
Gene Symbol	B2M
Species	Human, Primate
Reactivity Notes	Human and non-human primates.
Marker	Renal Failure & Tumor Marker
Specificity/Sensitivity	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.
Immunogen	Full length recombinant human beta 2-Microglobulin protein (Uniprot: P61769 )

Product Application Details	
Applications	Western Blot, Flow Cytometry, Flow (Cell Surface), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, CyTOF-ready, Immunofluorescence
Recommended Dilutions	Western Blot, Flow Cytometry 0.5 - 1 ug/million cells in 0.1 ml, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 0.5 - 1.0 ug/ml, Flow (Cell Surface) 1:10-1:1000, Immunofluorescence 0.5 - 1.0 ug/ml, CyTOF-ready

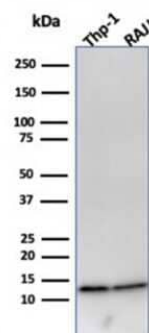


**Application Notes**

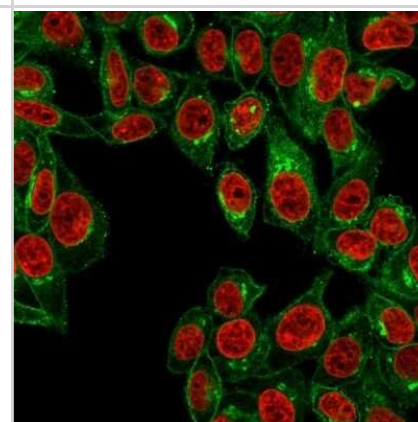
Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.

**Images**

Western Blot: beta 2-Microglobulin Antibody (B2M/961) - Azide and BSA Free [NBP2-47704] - Western Blot Analysis of THP-1 and Raji cell lysates using beta 2-Microglobulin antibody (B2M/961).



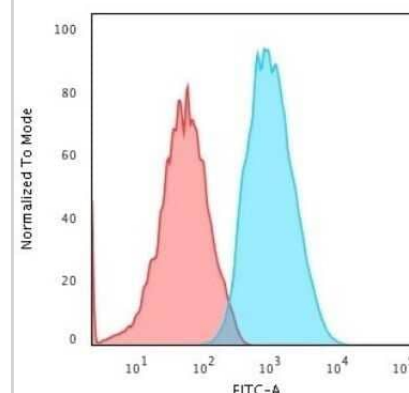
Immunocytochemistry/Immunofluorescence: beta 2-Microglobulin Antibody (B2M/961) - Azide and BSA Free [NBP2-47704] - Immunofluorescence Analysis of HeLa cells labeling with beta 2-Microglobulin Antibody (B2M/961) followed by Goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Red Dot (Red)



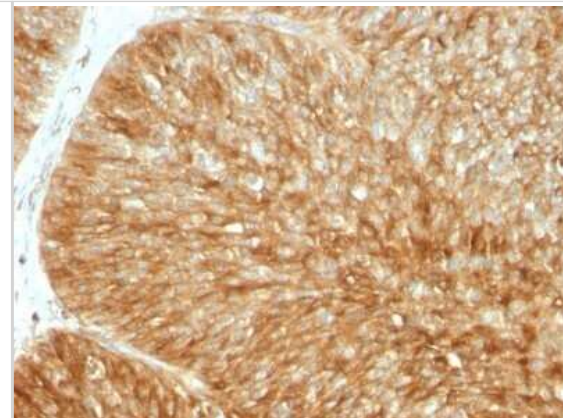
Immunohistochemistry-Paraffin: beta 2-Microglobulin Antibody (B2M/961) - Azide and BSA Free [NBP2-47704] - Human Endometrial Carcinoma stained with Beta-2-Microglobulin Monoclonal Antibody (B2M/961)



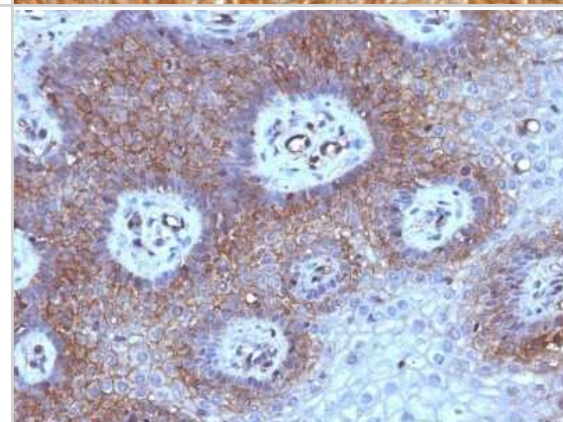
Flow Cytometry: beta 2-Microglobulin Antibody (B2M/961) - Azide and BSA Free [NBP2-47704] - Flow Cytometric Analysis of Human HeLa cells. beta 2-Microglobulin Antibody (B2M/961) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype control (Red)



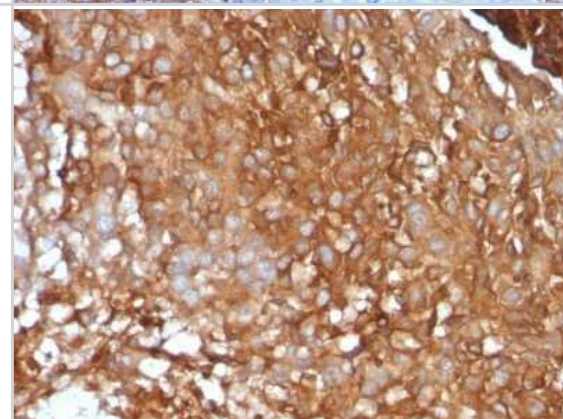
Immunohistochemistry-Paraffin: beta 2-Microglobulin Antibody (B2M/961) - Azide and BSA Free [NBP2-47704] - Human Bladder Carcinoma stained with Beta-2-Microglobulin Monoclonal Antibody (B2M/961)



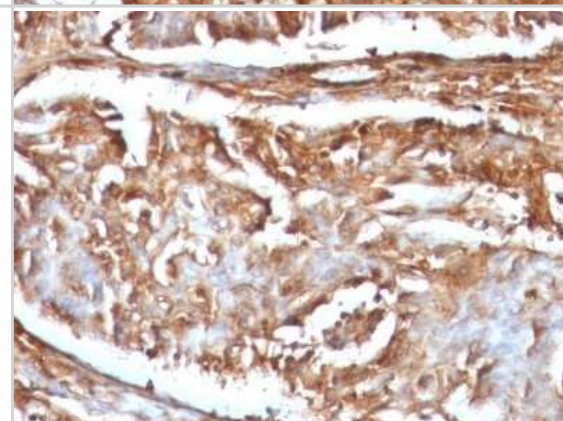
Immunohistochemistry-Paraffin: beta 2-Microglobulin Antibody (B2M/961) - Azide and BSA Free [NBP2-47704] - Formalin-fixed, paraffin-embedded human Cervical Carcinoma stained with beta 2-Microglobulin Antibody (B2M/961).



Immunohistochemistry-Paraffin: beta 2-Microglobulin Antibody (B2M/961) - Azide and BSA Free [NBP2-47704] - Human Melanoma stained with Beta-2-Microglobulin Monoclonal Antibody (B2M/961).

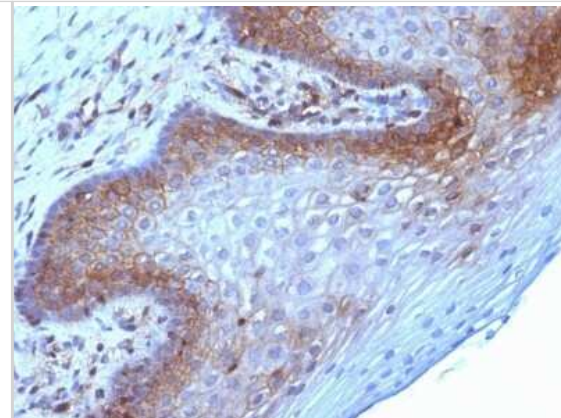


Immunohistochemistry-Paraffin: beta 2-Microglobulin Antibody (B2M/961) - Azide and BSA Free [NBP2-47704] - Human Renal Carcinoma stained with Beta-2-Microglobulin Monoclonal Antibody (B2M/961)





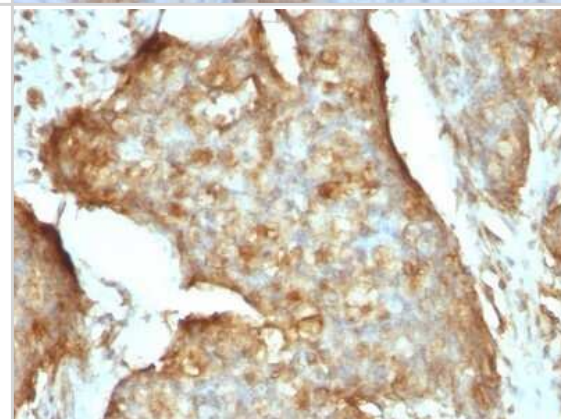
Immunohistochemistry-Paraffin: beta 2-Microglobulin Antibody (B2M/961) - Azide and BSA Free [NBP2-47704] - Formalin-fixed, paraffin-embedded human Cervical Carcinoma stained with beta 2-Microglobulin Antibody (B2M/961).



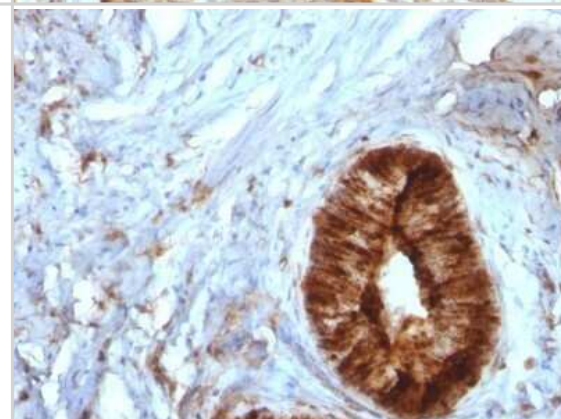
Immunohistochemistry-Paraffin: beta 2-Microglobulin Antibody (B2M/961) - Azide and BSA Free [NBP2-47704] - Human Colon Carcinoma stained with Beta-2-Microglobulin Monoclonal Antibody (B2M/961)



Immunohistochemistry-Paraffin: beta 2-Microglobulin Antibody (B2M/961) - Azide and BSA Free [NBP2-47704] - Formalin-fixed, paraffin-embedded human Gastric Carcinoma stained with beta 2-Microglobulin Antibody (B2M/961).



Immunohistochemistry-Paraffin: beta 2-Microglobulin Antibody (B2M/961) - Azide and BSA Free [NBP2-47704] - Human Cervical Carcinoma stained with Beta-2-Microglobulin Monoclonal Antibody (B2M/961).



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**Products Related to NBP2-47704-0.1mg**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43317-0.5mg	Mouse IgG2b Kappa Light Chain Isotype Control (MG2b)
NBP1-50840-0.01mg	Recombinant Human beta 2-Microglobulin His Protein

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**Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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