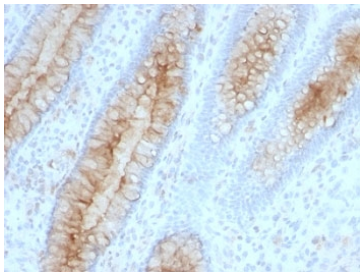
Beta-2 Microglobulin Antibody [clone B2M/961] (V2804)

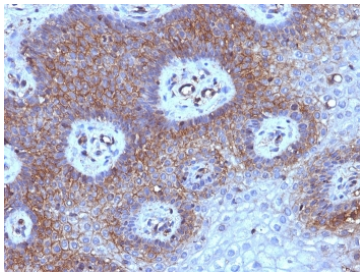
Catalog No.	Formulation	Size
V2804-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2804-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2804SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2804IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

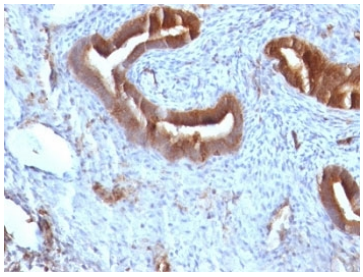
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	B2M/961
Purity	Protein G affinity chromatography
UniProt	P61769
Localization	Cytoplasmic
Applications	Flow Cytometry : 1-2ug/10^6 cells Immunofluorescence : 1-4ug/ml Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 0.5-1ug/ml for 30 min at RT
Limitations	This Beta-2 Microglobulin antibody is available for research use only.



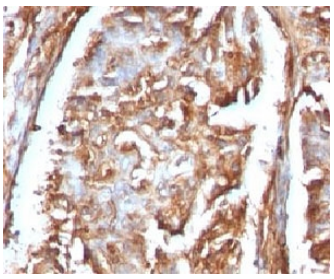
IHC: Formalin-fixed, paraffin-embedded human colon carcinoma stained with Beta-2-Microglobulin antibody (clone B2M/961).



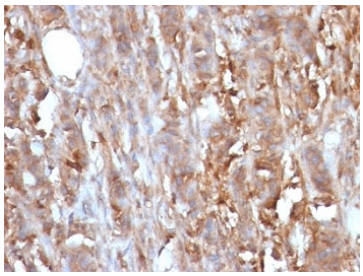
IHC: Formalin-fixed, paraffin-embedded human cervical carcinoma stained with Beta-2-Microglobulin antibody (clone B2M/961).



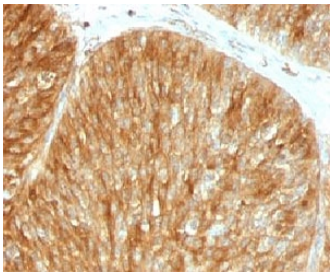
IHC: Formalin-fixed, paraffin-embedded human endometrial carcinoma stained with Beta-2-Microglobulin antibody (clone B2M/961).



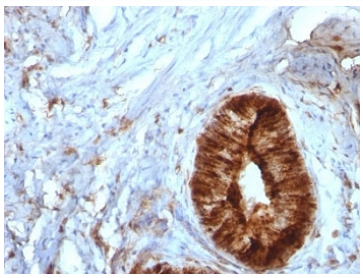
IHC: Formalin-fixed, paraffin-embedded human renal carcinoma stained with Beta-2-Microglobulin antibody (clone B2M/961).



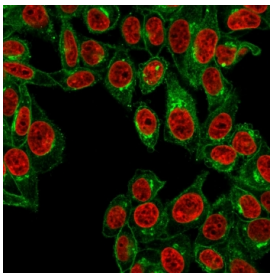
IHC: Formalin-fixed, paraffin-embedded human cervical carcinoma stained with Beta-2-Microglobulin antibody (clone B2M/961).



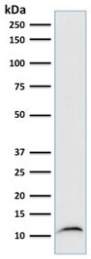
IHC: Formalin-fixed, paraffin-embedded human bladder carcinoma stained with Beta-2-Microglobulin antibody (clone B2M/961).



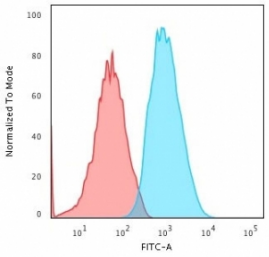
IHC: Formalin-fixed, paraffin-embedded human cervical carcinoma stained with Beta-2-Microglobulin antibody (clone B2M/961).



Immunofluorescent staining of human HeLa cells with Beta-2 Microglobulin antibody (green, clone B2M/961) and Reddot nuclear stain (red).



Western blot testing of human Raji cell lysate with Beta-2-Microglobulin antibody (clone B2M/961).



Flow cytometry testing of human HeLa cells with Beta-2 Microglobulin antibody (clone B2M/961); Red=isotype control, Blue= Beta-2 Microglobulin antibody.

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.

Application Notes

Optimal dilution of the Beta-2 Microglobulin antibody should be determined by the researcher.

1. Staining of formalin/paraffin tissues requires boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.
2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Full length recombinant human protein was used as the immunogen for the Beta-2 Microglobulin antibody.

Storage

Store the Beta-2 Microglobulin antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).