Datasheet for ABIN3025743

anti-beta-2 Microglobulin antibody

6 Images

Go to Product page

Overview

Quantity:	100 µg
Target:	beta-2 Microglobulin (B2M)
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Application:	Flow Cytometry (FACS), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Full length recombinant human protein was used as the immunogen for the Beta-2 Microglobulin antibody.
Clone:	B2M-961
Isotype:	IgG2b kappa
Purification:	Protein G affinity chromatography

Target Details

Target:	beta-2 Microglobulin (B2M)
Alternative Name:	beta-2 Microglobulin (B2M Products)
Background:	Recognizes a protein of 12 kDa, 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

Target Details

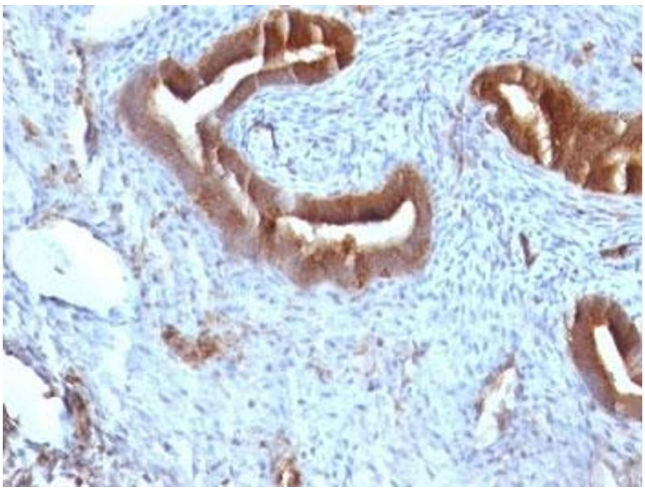
	pathogens. MHC class 1 Molecules consist of an alpha heavy chain that contains three subdomains (alpha1, alpha2, alpha3) and a non-covalent associating light chain, known as beta-2-Microglobulin. Beta-2-Microglobulin associates with the alpha3 subdomain of the alpha heavy chain and forms an immunoglobulin 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.
Pathways:	TCR Signaling, Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process

Application Details

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 10 mM Citrate buffer, pH 6.0, 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.\. Flow Cytometry: 0.5-1 µg/million cells in 0.1ml,Immunofluorescence: 0.5-1 µg/mL,Immunohistochemistry (FFPE): 0.5-1 µg/mL for 30 min at RT (1),Prediluted format: incubate for 30 min at RT (2)
Restrictions:	For Research Use only

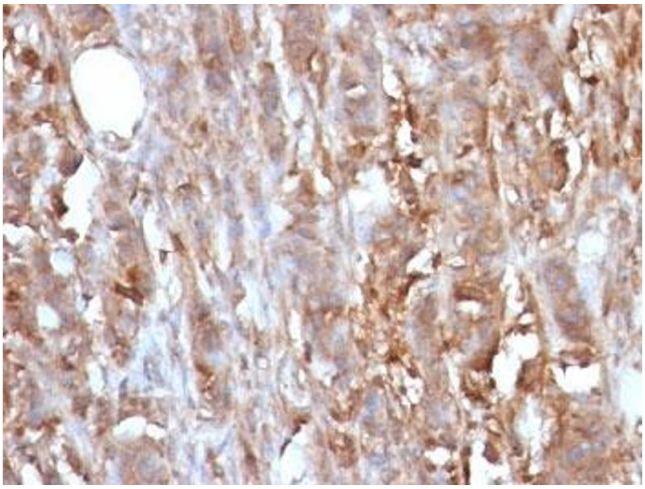
Handling

Concentration:	1 mg/mL
Buffer:	1 mg/mL in 1X PBS, BSA free, sodium azide free
Preservative:	Azide free
Storage:	4 °C,-20 °C
Storage Comment:	Store the Beta-2 Microglobulin antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).



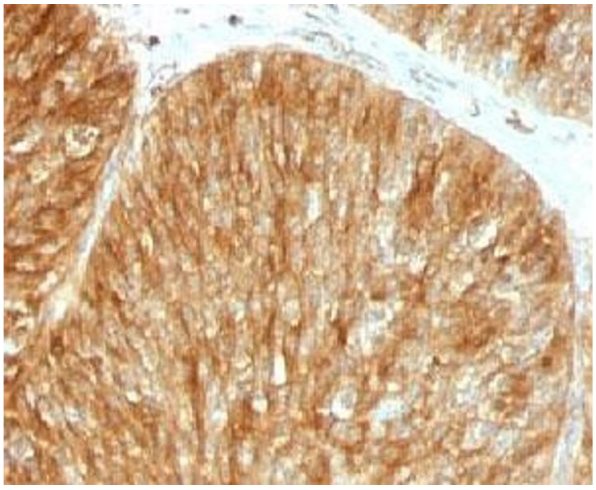
Immunohistochemistry (Formalin-fixed Paraffin-embedded Sections)

Image 1. Formalin-fixed, paraffin-embedded human endometrial carcinoma stained with Beta-2-Microglobulin antibody.



Immunohistochemistry (Formalin-fixed Paraffin-embedded Sections)

Image 2. Formalin-fixed, paraffin-embedded human cervical carcinoma stained with Beta-2-Microglobulin antibody.



Immunohistochemistry (Formalin-fixed Paraffin-embedded Sections)

Image 3. Formalin-fixed, paraffin-embedded human bladder carcinoma stained with Beta-2-Microglobulin antibody.

Please check the product details page for more images. Overall 6 images are available for ABIN3025743.