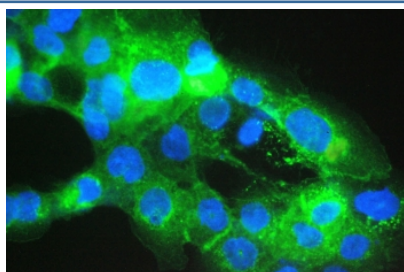


Beta-2 Microglobulin Antibody (R32745)

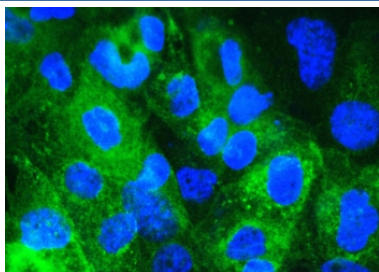
Catalog No.	Formulation	Size
R32745	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

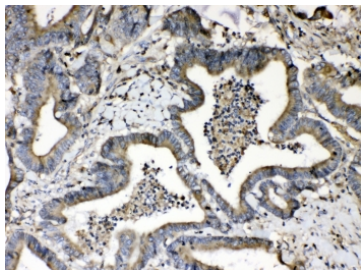
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P61769
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml Immunofluorescence (FFPE) : 2-4ug/ml Flow Cytometry : 1-3ug/10 ⁶ cells
Limitations	This Beta-2 Microglobulin antibody is available for research use only.



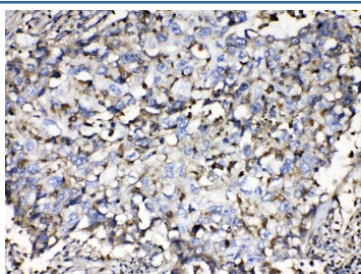
Immunofluorescent staining of FFPE human A431 cells with Beta-2 Microglobulin antibody (green) at 2ug/ml and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



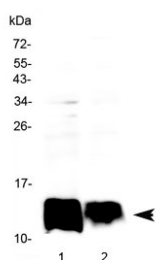
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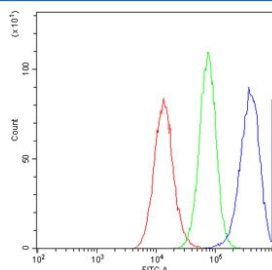
IHC testing of FFPE human intestinal cancer tissue with Beta-2 Microglobulin antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



IHC testing of FFPE human lung cancer tissue with Beta-2 Microglobulin antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



Western blot testing of human 1) HepG2 and 2) 22RV1 cell lysate with Beta-2 Microglobulin antibody at 0.5ug/ml. Predicted molecular weight ~14 kDa.



Flow cytometry testing of human U251 cells with Beta-2 Microglobulin antibody at 1ug/10⁶ cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Beta-2 Microglobulin antibody.

Description

Beta-2 microglobulin also known as B2M is a component of MHC class I molecules, which are present on all nucleated cells (excludes red blood cells). In humans, the beta-2-microglobulin protein is encoded by the B2M gene. The protein has a predominantly beta-pleated sheet structure that can form amyloid fibrils in some pathological conditions. The encoded antimicrobial protein displays antibacterial activity in amniotic fluid. A mutation in this gene has been shown to result in hypercatabolic hypoproteinemia.

Application Notes

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

Immunogen

Amino acids Q22-M119 from the human protein were used as the immunogen for the Beta-2 Microglobulin antibody.

Storage

After reconstitution, the Beta-2 Microglobulin antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.