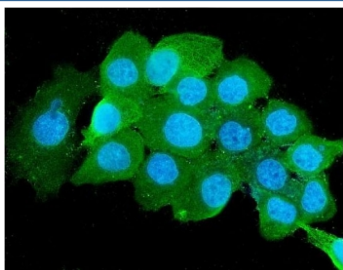


B2M Antibody / Beta 2 Microglobulin [clone 2H10] (RQ4629)

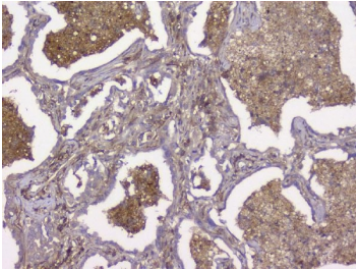
Catalog No.	Formulation	Size
RQ4629	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

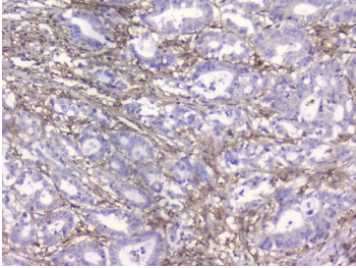
Availability	1-3 business days
Species Reactivity	Human, Monkey
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b
Clone Name	2H10
Purity	Protein G affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P61769
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml Flow Cytometry : 1-3ug/10 ⁶ cells Immunofluorescence : 2-4ug/ml
Limitations	This B2M antibody is available for research use only.



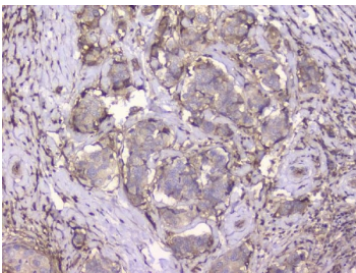
Immunofluorescent staining of FFPE human A431 cells with B2M antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



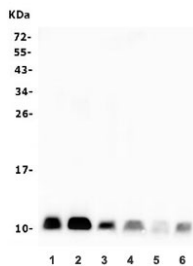
IHC staining of FFPE human lung cancer with B2M antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



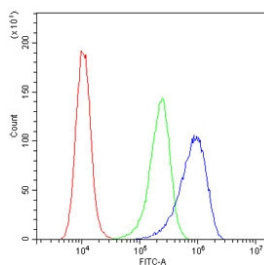
IHC staining of FFPE human intestinal cancer with B2M antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human breast cancer with B2M antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) monkey COS-7 and human 2) HeLa, 3) HL-60, 4) HepG2, 5) K562 and 6) 293T lysate with B2M antibody. Predicted molecular weight ~14 kDa.



Flow cytometry testing of human A431 cells with B2M antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= B2M 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 B2M antibody should be determined by the researcher.

Immunogen

Amino acids Q22-M119 from the human protein were used as the immunogen for the B2M antibody.

Storage

After reconstitution, the B2M 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.