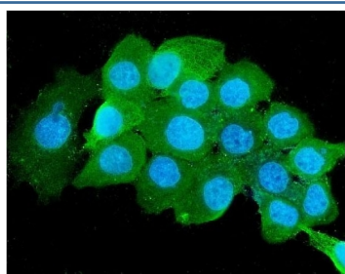


## B2M Antibody / Beta 2 Microglobulin [clone 2H10] (RQ4629)

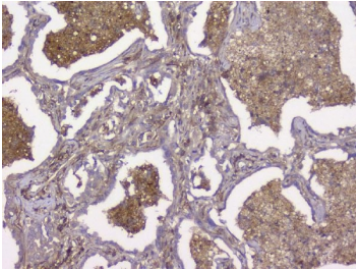
| Catalog No. | Formulation                                           | Size   |
|-------------|-------------------------------------------------------|--------|
| RQ4629      | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

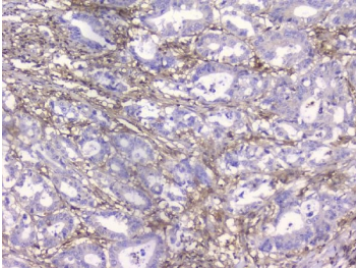
|                    |                                                                                                                                                      |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Availability       | 1-3 business days                                                                                                                                    |
| Species Reactivity | Human, Monkey                                                                                                                                        |
| Format             | Purified                                                                                                                                             |
| Host               | Mouse                                                                                                                                                |
| 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<br>Immunohistochemistry (FFPE) : 1-2ug/ml<br>Flow Cytometry : 1-3ug/10 <sup>6</sup> cells<br>Immunofluorescence : 2-4ug/ml |
| Limitations        | This B2M antibody is available for research use only.                                                                                                |



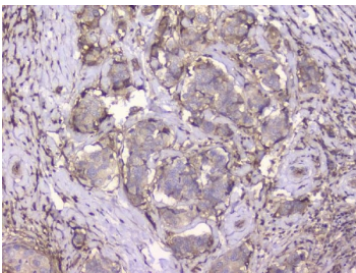
Immunofluorescent staining of FFPE human A431 cells with B2M antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



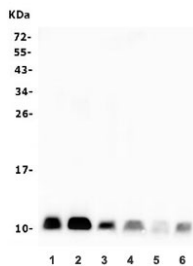
IHC staining of FFPE human lung cancer with B2M antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



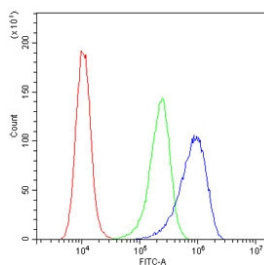
IHC staining of FFPE human intestinal cancer with B2M antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



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.

For additional research on beta-2 microglobulin expression, MHC class I complexes and antigen presentation, including a protein microarray validated reagent, see our [Beta-2 Microglobulin Antibody / MHC Class I Component Antibody](#) page.

## 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.