

Anti-B2M/beta 2-Microglobulin Antibody (9P155)

Product Details

Ig Type:	Mouse IgG1
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	9P155
Purification:	Protein A

Applications

1. Anti-B2M mouse monoclonal antibody at 1:500 dilution.

-Lane A: A-431 Whole Cell Lysate.

-Lane B: U-937 Whole Cell Lysate.

-Lane C: Raji Whole Cell Lysate.

-Lane D: HeLa Whole Cell lysate.

-Lysates/proteins at 30 µg per lane.

-Secondary

-Goat Anti-Mouse IgG (H+L)/HRP at 1/10000 dilution.

-Developed using the ECL technique.

-Performed under reducing conditions.

Verified Activity: -Predicted band size:13 kDa.

-Observed band size:13 kDa.

2. Immunofluorescence staining of B2M in Hela cells. Cells were fixed with 4% PFA, permeabilized with 0.1% Triton X-100 in PBS, blocked with 10% serum, and incubated with mouse anti-human B2M monoclonal antibody (dilution ratio 1:60) at 4°C overnight. Then cells were stained with the Alexa Fluor[®]488-conjugated Goat Anti-mouse IgG secondary antibody (green). Positive staining was localized to Cytoplasm.

3. Flow cytometric analysis of Human B2M / Beta-2-microglobulin expression on human whole blood lymphocytes. Cells were stained with purified anti-Human B2M / Beta-2-microglobulin, then a PE-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of viable lymphocytes.

Application: ELISA,FCM,ICC/IF,WB

Recommended WB: 1:500-1:2000; ELISA: 1:1000-1:2000; ICC-IF: 1:20-1:100; FCM: 1:25-1:100

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein: Human Beta-2 microglobulin/B2M Protein (TMPY-01686)

Antigen Species: Human

Synonyms: β -2 microglobulin;beta-2 microglobulin

Research Background

B2M, also known as β 2-Microglobulin or CDABP0092, is a component of MHC class I molecules found expression in all nucleated cells (excludes red blood cells). The major function of MHC class I molecules is to display fragments of proteins from within the cell to T-cells and cells containing foreign proteins will be attacked. B2M (β 2-Microglobulin) is a low molecular weight protein. It was demonstrated that B2M (β 2-Microglobulin) was localized in the membranes of nucleated cells and was found to be associated with HL-A antigens. B2M (β 2- Microglobulin) is present in free form in various body fluids and as a subunit of histocompatibility antigens on cell surfaces lateral to the α 3 chain. Unlike α 3, β 2 has no transmembrane region. Directly above β 2 lies the α 1 chain, which itself is lateral to the α 2. In the absence of B2M (β 2 microglobulin), very limited amounts of MHC class I (classical and non-classical) molecules can be detected on the surface. In the absence of MHC class I, CD8 T cells, a subset of T cells involved in the development of acquired immunity cannot develop. Low levels of B2M (β 2 microglobulin) can indicate non-progression of HIV.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481