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36-3049: Anti-Beta-2 Microglobulin (Renal Failure & Tumor Marker) Monoclonal Antibody(Clone: C21.48A1)

Clonality :	Monoclonal
Clone Name :	C21.48A1
Application :	FACS,WB,IF
Reactivity :	Human
Gene :	B2M
Gene ID :	567
Uniprot ID :	P61769
Alternative Name :	B2M; Beta 2 microglobin; Beta 2 microglobulin; Beta chain of MHC class I molecules; Beta-2-microglobulin form pI 5.3; Hdcma22p
Isotype :	Mouse IgG2b, kappa
Immunogen Information :	Soluble beta 2 microglobulin

Description

The antibody recognizes the hidden determinant of beta-2 microglobulin (i.e. binding to its determinant is available only when the chain is separated from the HLA heavy chain. Beta-2 microglobulin is a 12KDa protein with a pI of 5.6. Serum beta2 microglobulin levels are a reflection of cell turnover. Levels rise with fever, inflammation, and infection. Increased serum levels are also seen in B-cell malignancies and in renal failure and may indicate a worse prognosis for patients with early-stage Hodgkin's lymphoma. In urine, increased levels are seen in proximal renal tubular disease as well as renal transplant rejection. Beta2 microglobulin levels can rise either because its rate of synthesis has increased (e.g. in AIDS, malignant monoclonal plasma cell dyscrasia, solid tumours and autoimmune disease) or because of impaired renal filtration (e.g. due to renal insufficiency, graft rejection or nephrotoxicity induced by post-transplantation immunosuppressive therapy).

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

Application Note

Flow Cytometry (1-2ug/million cells); Western Blot (1-2ug/ml); Immunofluorescence (1-2ug/ml);

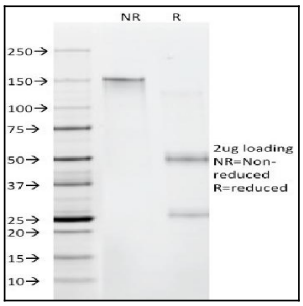


Fig. 1: SDS-PAGE Analysis Purified Beta-2-Microglobulin Mouse Monoclonal Antibody (C21.48A1). Confirmation of Integrity and Purity of Antibody.

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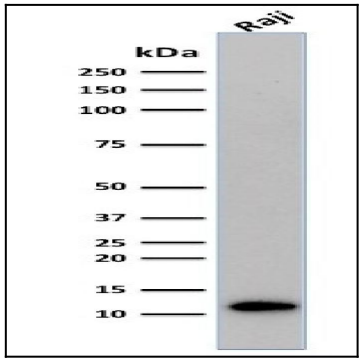


Fig. 2: Western Blot Analysis of human Raji cell lysate using Beta-2-Microglobulin Mouse Monoclonal Antibody (C21.48A1).

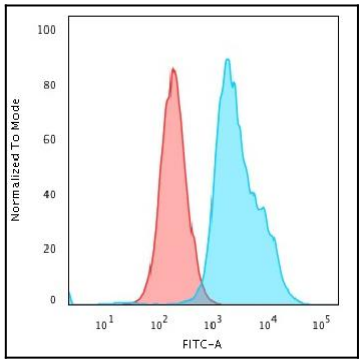


Fig. 3: Flow Cytometric Analysis of PFA-fixed HeLa cells using Beta-2-Microglobulin Mouse Monoclonal Antibody (C21.48A1) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red)

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