

Product datasheet for BM604S

OriGene Technologies, Inc.

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beta 2 Microglobulin (B2M) Mouse Monoclonal Antibody [Clone ID: B2M-01]

Product data:

Product Type: Primary Antibodies

Clone Name: B2M-01

Applications: ELISA, FC, IF, IHC, IP, R, WB

Recommended Dilution: Western blotting: Recommended dilution: 2-4 μg/ml; positive control: U937 human histiocytic

lymphoma cell line, RAJI human Burkitt lymphoma cell line, negative control: EL4 mouse

lymphoblastic lymphoma cell line; both reducing and non-reducing conditions.

Immunohistochemistry (paraffin sections): Recommended dilution: 10 µg/ml; positive tissue:

kidney glomeruli.

Flow cytometry: Recommended dilution: $0.5-4 \mu g/ml$; positive control: peripheral blood lymphocytes, negative control: DAUDI human Burkitt lymphoma cell line, erythrocytes.

ELISA: Working dilution should be determinated by investigator.

RIA: Use at an assay dependent concentration. The dissociation constant of the antibody

soluble beta2-microglobulin is 1.5×10^{-8} mol/l as determined by competitive RIA.

Immunoprecipitation: The antibody B2M-01 coprecipitates beta2-microglobulin (12 kDa) and

HLA antigens (45 kDa) from the lysates of human lymphoid cells.

Reactivity: Human
Host: Mouse
Isotype: IgG2a

Clonality: Monoclonal

Immunogen: Purified Human beta-2-Microglobulin

Specificity: he antibody reacts with beta-2-Microglobulin (B2M) associated with cell-surface MHC Class I

molecules and other membrane antigens as well as with soluble beta-2-Microglobulin.

Negative Species: Mouse, Bovine, Canine (Dog), Rabbit and Chicken.

Formulation: PBS, pH~7.4

State: Purified

State: Liquid purified IgG fraction (> 95% pure by SDS-PAGE)

Preservative: 15 mM Sodium Azide

Concentration: lot specific

Purification: Sequential precipitation method with caprylic acid and ammonium sulphate





Conjugation: Unconjugated

Storage: Store undiluted at 2-8°C.

DO NOT FREEZE!

Stability: Shelf life: one year from despatch.

Database Link: Entrez Gene 567 Human

P61769

Background: Beta-2 Microglobulin non-covalently associates with the 44 kDa alpha chain to form the HLA

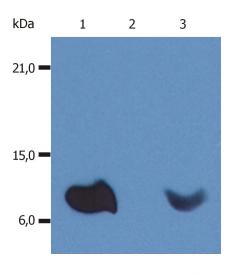
Class I antigen complex. Human beta 2 Microglobulin associated with HLA Class I antigens are

expressed on many types of cells including lymphocytes, thymocytes, monocytes,

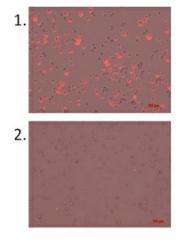
granulocytes, platelets, endothelial cells, and epithelial cells. It is absent on erythrocytes.

Synonyms: B2M, Beta-2 microglobulin, Beta 2 microglobulin

Product images:

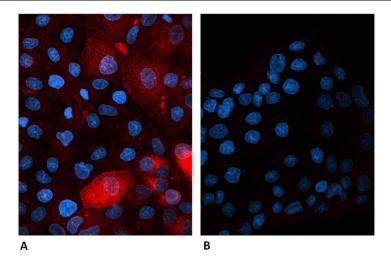


Western Blotting analysis (non-reducing conditions) of whole cell lysate of various cell lines using anti-human bata2-microglobulin (B2M-01). Lane 1: RAJI human Burkitt lymphoma cell line;Lane 2: EL4 mouse lymphoblastic lymphoma cell line;Lane 3: U937 human histiocytic lymphoma cell line



1. Murine 4T1 cells were mixed with human DU-145 cells and stained with 1 ug Beta-2-microglobulin antibody. Anti-mouse Cy3 was used as a secondary antibody. Red stained cells mark the Beta-2-microglobulin positive human DU-145 cells. 2. Murine 4T1 cells were stained with 1 ug Beta-2-microglobulin antibody. Anti-mouse Cy3 was used as a secondary antibody. Murine 4T1 cells are negative for Beta-2-microglobulin staining. Pictures by courtesy of Fraunhofer ITEM, Regensburg, Germany.





Confocal microscopy of Hman Beta-2-microglobulin-transfected canine cells labeled A) with antibody Alexa Fluor® 647 conjugate and B) with Alexa Fluor® 647 conjugated Mouse IgG2a Isotype Control. Cells were fixed with 4% PFA and permeabilized with 0.1% PBS-Tween20 containing 2% BSA. Antibody concentration 2 ug/ml.