

Product Datasheet

beta 2-Microglobulin Antibody (B2M-01) - BSA Free NB500-317

Unit Size: 0.1 mg

Store at 4C. Do not freeze.

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NB500-317

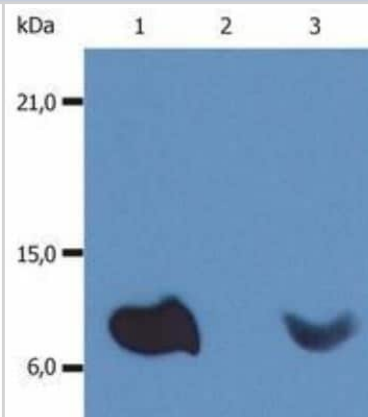
beta 2-Microglobulin Antibody (B2M-01) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Monoclonal
Clone	B2M-01
Preservative	0.9% Sodium Azide
Isotype	IgG2a
Purity	Protein A purified
Buffer	PBS (pH 7.4)
Target Molecular Weight	12 kDa
Product Description	
Host	Mouse
Gene ID	567
Gene Symbol	B2M
Species	Human, Bovine (Negative), Canine (Negative), Chicken (Negative), Mouse (Negative), Rabbit (Negative)
Reactivity Notes	Weak positive staining was observed in peripheral blood lymphocytes of the monkey <i>Cercopithecus aethiops</i> .
Specificity/Sensitivity	The antibody B2M-01 reacts with beta2-microglobulin (beta2M) associated with cell-surface MHC Class I molecules and other membrane antigens as well as with soluble beta2-microglobulin. Beta2M is a 12 kDa Ig like glycoprotein expressed on lymphocytes, thymocytes, monocytes, granulocytes, platelets, endothelial cells and epithelial cells. It is absent on erythrocytes.
Immunogen	Purified human beta 2 Microglobulin (NM_004048.2).
Product Application Details	
Applications	Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Radioimmunoassay
Recommended Dilutions	Western Blot 2-4 ug/ml, Flow Cytometry 0.5-4 ug/ml, ELISA 1:2000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation 1:50, Immunohistochemistry-Paraffin 10 ug/ml, Radioimmunoassay 1:100-1:2000
Application Notes	WB: 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. IHC-P: positive tissue: kidney glomeruli. Flow cytometry: positive control: peripheral blood lymphocytes, negative control: DAUDI human Burkitt lymphoma cell line, erythrocytes. 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. IP: The antibody B2M-01 coprecipitates beta2-microglobulin (12 kDa) and HLA antigens (45 kDa) from the lysates of human lymphoid cells.

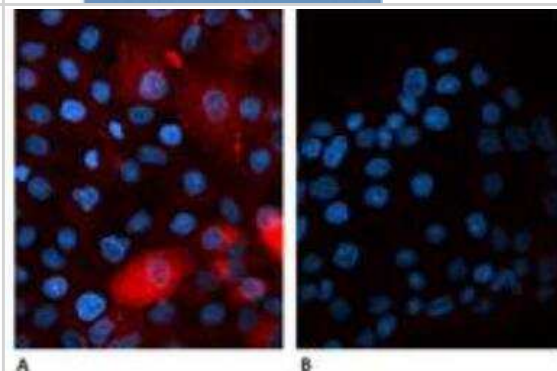


Images

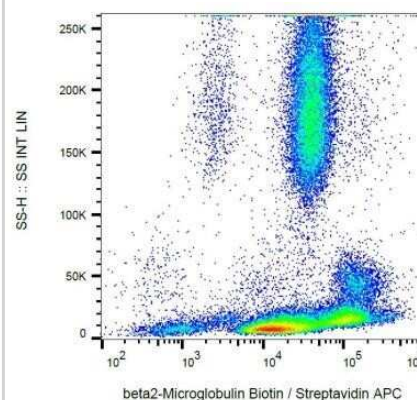
Western Blot: beta 2-Microglobulin Antibody (B2M-01) [NB500-317] - Analysis using the FITC conjugate of NB500-317. Detection (non-reducing conditions) of whole cell lysate of various cell lines Lane 1: RAJI human Burkitt lymphoma cell line Lane 2: EL4 mouse lymphoblastic lymphoma cell line Lane 3: U937 human histiocytic lymphoma cell line.



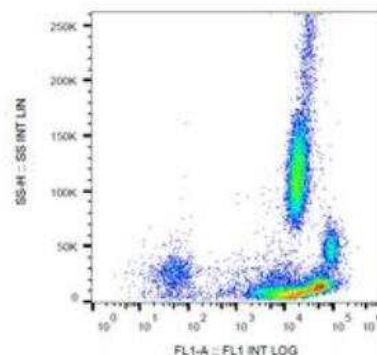
Immunocytochemistry/Immunofluorescence: beta 2-Microglobulin Antibody (B2M-01) [NB500-317] - Confocal microscopy of human beta2-microglobulin-transfected canine cells labeled A) with B2M-01 antibody Alexa Fluor (R) 647 conjugate and B) with Alexa Fluor (R) 647 conjugated Mouse IgG2a Isotype Control. Cells were fixed with 4% PFA and permeabilized with 0.1% PBS-Tween20 containing 2% BSA. Antibody concentration 2ug/ml.



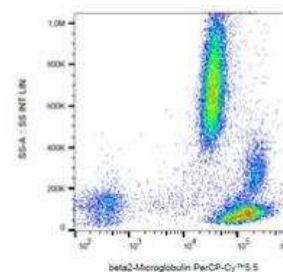
Flow Cytometry: beta 2-Microglobulin Antibody (B2M-01) [NB500-317] - Staining of beta-2-microglobulin in human peripheral blood with anti-beta-2-microglobulin (B2M-01) biotin.



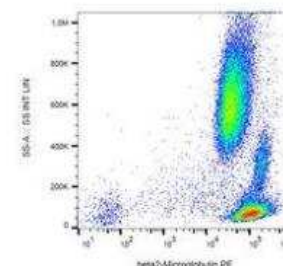
Flow Cytometry: beta 2-Microglobulin Antibody (B2M-01) [NB500-317] - Surface staining of beta2-microglobulin in human peripheral blood with anti-beta2-microglobulin (B2M-01) FITC.



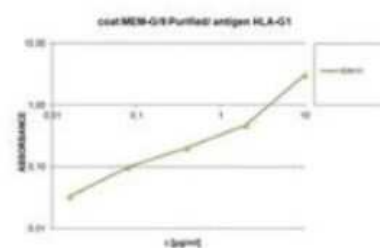
Flow Cytometry: beta 2-Microglobulin Antibody (B2M-01) [NB500-317] - Surface staining of beta2-microglobulin in human peripheral blood with anti-beta2-microglobulin (B2M-01) PerCP-CyTM5.5.



Flow Cytometry: beta 2-Microglobulin Antibody (B2M-01) [NB500-317] - Surface staining of beta2-microglobulin in human peripheral blood with anti-beta2-microglobulin (B2M-01) PE.



ELISA: beta 2-Microglobulin Antibody (B2M-01) [NB500-317] - Analysis of HLA-G and beta2-microglobulin in supernatant of HLA-G transfectants with anti-beta2-microglobulin (B2M-01) HRP as the detection antibody. Image using the HRP format of this antibody.



Publications

Tabandeh MR, Jozaie S, Ghotbedin Z, Gorani S Dimethyl itaconic acid improves viability and steroidogenesis and suppresses cytokine production in LPS-treated bovine ovarian granulosa cells by regulating TLR4/nfk beta, NLRP3, JNK signaling pathways Research in veterinary science 2022-08-01 [PMID: 35933803] (WB, Bovine)

Halbert D, Domenyuk V, Spetzler D et al. Aptamers and uses thereof United States Patent Application US 9958448 B2 2018-01-01

Rivino L, Tan AT, Chia A et al. Defining CD8+ T Cell Determinants during Human Viral Infection in Populations of Asian Ethnicity J Immunol 2013-10-15 [PMID: 24058176] (ELISA, Human)

Details:

This citation used the HRP version of this antibody.



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Products Related to NB500-317

NBL1-07874	beta 2-Microglobulin Overexpression Lysate
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96778	Mouse IgG2a Isotype Control (M2A)

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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