

# 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

<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C. Do not freeze.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	B2M-01
<b>Preservative</b>	15mM Sodium Azide
<b>Isotype</b>	IgG2a
<b>Purity</b>	Protein A purified
<b>Buffer</b>	Phosphate buffered saline (PBS), pH 7.4
<b>Target Molecular Weight</b>	12 kDa

<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Mouse beta 2-Microglobulin Antibody (B2M-01) - BSA Free (NB500-317) is a monoclonal antibody validated for use in IHC, WB, ELISA, Flow, ICC/IF and IP. Anti-beta 2-Microglobulin Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Gene ID</b>	567
<b>Gene Symbol</b>	B2M
<b>Species</b>	Human, Bovine (Negative), Canine (Negative), Chicken (Negative), Mouse (Negative), Rabbit (Negative)
<b>Reactivity Notes</b>	Weak positive staining was observed in peripheral blood lymphocytes of the monkey Cercopithecus aethiops.
<b>Specificity/Sensitivity</b>	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.
<b>Immunogen</b>	Purified human beta 2 Microglobulin (NM_004048.2).

<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation, Radioimmunoassay
<b>Recommended Dilutions</b>	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

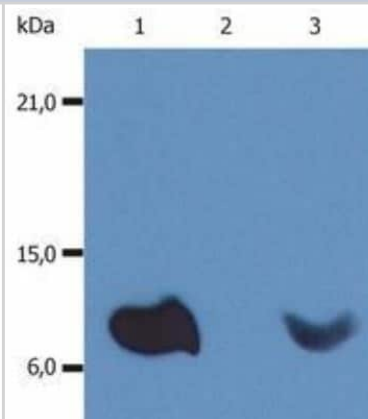


**Application Notes**

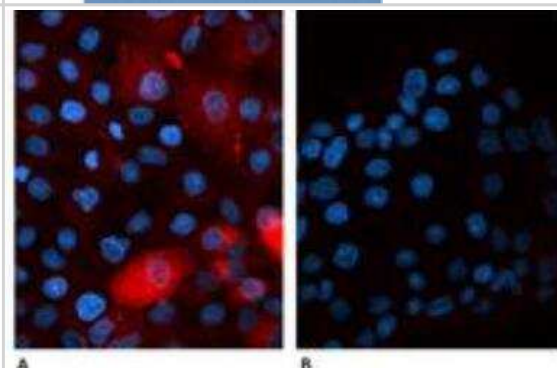
WB: positive control: U937 human histiocytic lymphoma cell line, RAJI human Burkitt lymphoma cell line, negative control: EL4 mouse lymphoblastic lymphoma cell line; both reducing and non-reducing conditions. IHC-P: positive tissue: kidney glomeruli. Flow cytometry: positive control: peripheral blood 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  $1.5 \times 10^{-8}$  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**

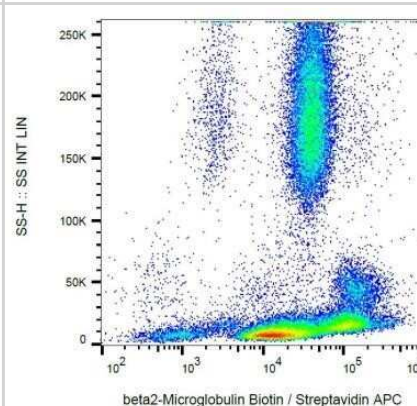
Western Blot: beta 2-Microglobulin Antibody (B2M-01) [NB500-317] - Analysis using the FITC conjugate of NB500-317. Detection (non-reducing conditions) of whole cell lysate of various cell lines Lane 1: RAJI human Burkitt lymphoma cell line Lane 2: EL4 mouse lymphoblastic lymphoma cell line Lane 3: U937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



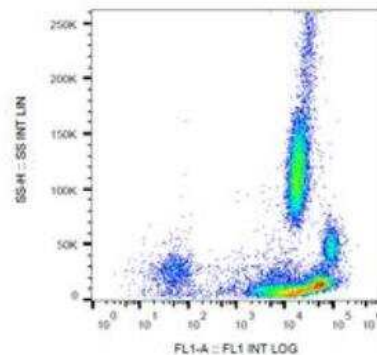
Immunocytochemistry/Immunofluorescence: beta 2-Microglobulin Antibody (B2M-01) [NB500-317] - Confocal microscopy of human beta2-microglobulin-transfected canine cells labeled A) with B2M-01 antibody Alexa Fluor (R) 647 conjugate and B) with Alexa Fluor (R) 647 conjugated Mouse IgG2a Isotype Control.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



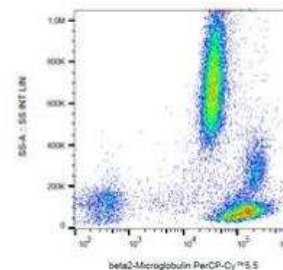
Flow Cytometry: beta 2-Microglobulin Antibody (B2M-01) [NB500-317] - Staining of beta-2-microglobulin in human peripheral blood with anti-beta-2-microglobulin (B2M-01) biotin.



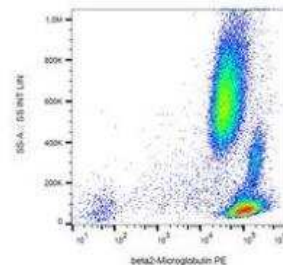
Flow Cytometry: beta 2-Microglobulin Antibody (B2M-01) [NB500-317] - Surface staining of beta2-microglobulin in human peripheral blood with anti-beta2-microglobulin (B2M-01) FITC.



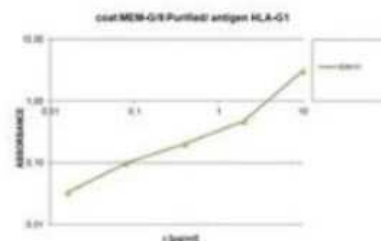
Flow Cytometry: beta 2-Microglobulin Antibody (B2M-01) [NB500-317] - Surface staining of beta2-microglobulin in human peripheral blood with anti-beta2-microglobulin (B2M-01) PerCP-CyTM5.5.



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**

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NBL1-07874	beta 2-Microglobulin Overexpression Lysate
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-96778	Mouse IgG2a Isotype Control (M2A)

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### **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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