

# Product Datasheet

## Integrin beta 1/CD29 Antibody (MEM-101A) - BSA Free NB500-383

Unit Size: 0.1 mg

Store at 4C. Do not freeze.

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### Publications: 9

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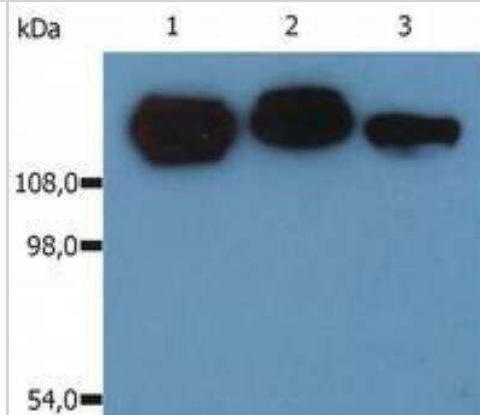


**NB500-383****Integrin beta 1/CD29 Antibody (MEM-101A) - BSA Free**

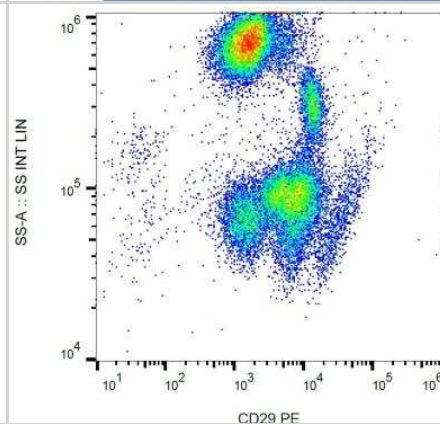
<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C. Do not freeze.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	MEM-101A
<b>Preservative</b>	15mM Sodium Azide
<b>Isotype</b>	IgG1
<b>Purity</b>	Protein A purified
<b>Buffer</b>	Phosphate buffered saline (PBS), pH 7.4
<b>Target Molecular Weight</b>	130 kDa
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Mouse Integrin beta 1/CD29 Antibody (MEM-101A) - BSA Free (NB500-383) is a monoclonal antibody validated for use in WB, Flow, ICC/IF and IP. Anti-Integrin beta 1/CD29 Antibody: Cited in 7 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Gene ID</b>	3688
<b>Gene Symbol</b>	ITGB1
<b>Species</b>	Human, Porcine, Canine, Mouse (Negative)
<b>Marker</b>	Stem Cell Marker
<b>Specificity/Sensitivity</b>	The antibody MEM-101A reacts with CD29 (integrin beta1 chain), a 130 kDa single chain type I glycoprotein expressed as a heterodimer (non-covalently associated with the integrin alpha subunits 1-6). CD29 is broadly expressed on majority of hematopoietic and non-hematopoietic cells (leukocytes, platelets, fibroblasts, endothelial cells, epithelial cells and mast cells). HLDA VI; WS Code AS A048
<b>Immunogen</b>	Raji Burkitt's lymphoma cell line (NM_002211.3).
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Flow Cytometry, Immunoprecipitation, CyTOF-ready
<b>Recommended Dilutions</b>	Western Blot 2 ug/ml, Flow Cytometry 2 ug/ml, Immunoprecipitation 1:50, CyTOF-ready
<b>Application Notes</b>	Purity is > 95% (by SDS-PAGE). Western Blot - Sample preparation: buffer with laurylmaltoside, 2 x non-reducing SDS Application note: Non-reducing conditions. SDS-PAGE (6% separating gel, 4% stacking gel). Recommended secondary antibody - anti mouse IgG/HRP, dilution 1:2000, 60 min on vertical incubator. This antibody is CyTOF ready.

## Images

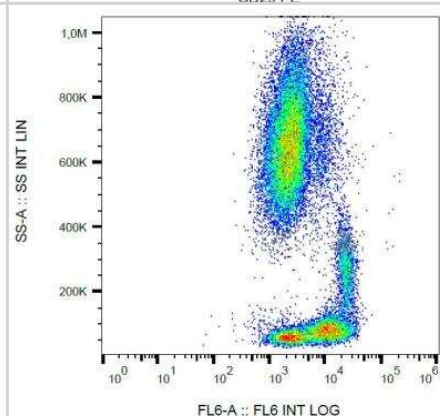
Western Blot: Integrin beta 1/CD29 Antibody (MEM-101A) [NB500-383] - Western Blotting analysis (non-reducing conditions) of isolated peripheral blood lymphocytes of various species using anti-Integrin beta 1 Antibody (MEM-101A). Lane 1: lysate of human PBL Lane 2: lysate of canine PBL Lane 3: lysate of porcine PBL.



Flow Cytometry: Integrin beta 1/CD29 Antibody (MEM-101A) [NB500-383] - Staining of human peripheral blood with anti-human CD29 (MEM-101A) PE.



Flow Cytometry: Integrin beta 1/CD29 Antibody (MEM-101A) [NB500-383] - Surface staining of human peripheral blood with anti-human CD29 (MEM-101A) APC conjugated.



## Publications

HD Dawson, JK Lunney Porcine cluster of differentiation (CD) markers 2018 update Res. Vet. Sci., 2018-02-22;118 (0):199-246. 2018-02-22 [PMID: 29518710]

Kell MJ, Ang SF, Pigati L et al. Novel function for AP-1B during cell migration Mol. Biol. Cell 2020-08-20 [PMID: 32816642]

Kell MJ, Ang SF, Pigati L et al. AP-1B facilitates endocytosis during cell migration bioRxiv 2019-10-25 (ICC/IF, Porcine)

Kishimoto T et al. Leukocyte Typing VI. Garland Publishing Inc. 1997-01-01

Moreira ML, Costa-Pereira C, Alves MLR. Vaccination against canine leishmaniosis increases the phagocytic activity, nitric oxide production and expression of cell activation/migration molecules in neutrophils and monocytes. Veterinary Parasitology [PMID: 26995719] (FLOW, Canine)

### Details:

Used the PE form of this antibody.

Planka L, Necas A, Srnec R et al. Use of allogenic stem cells for the prevention of bone bridge formation in miniature pigs Physiol Res 2009-01-01 [PMID: 19093735]

### Details:

This citation used the Biotin version of this antibody.

Simova S, Klima M, Cermak L, Sourkova V, Andera L. Arf and Rho GAP adapter protein ARAP1 participates in the mobilization of TRAIL-R1/DR4 to the plasma membrane Apoptosis 2008-03-01 [PMID: 18165900]

### Details:

This citation used the FITC version of this antibody.

Chen PW, Luo R, Jian X, Randazzo PA. The Arf6 GTPase-Activating Proteins ARAP2 and ACAP1 Define Distinct Endosomal Compartments that Regulate Integrin  $\alpha 5 \beta 1$  Traffic. J Biol Chem 2014-09-15 [PMID: 25225293]

### Details:

Using the PE conjugated version of NB500-383, catalog number NB500-383PE.

Quach NL, Biressi S, Reichardt LF et al. Focal Adhesion Kinase Signaling Regulates the Expression of Caveolin 3  $\beta 1$  Integrin, Genes Essential for Normal Myoblast Fusion. Mol Biol Cell;20(14):3422-3435. 2009-01-01 [PMID: 19458188]





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### **Products Related to NB500-383**

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NBL1-12069	Integrin beta 1/CD29 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]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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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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