

# Product Datasheet

## ICAM-1/CD54 Antibody (MEM-111) - BSA Free NB500-318

Unit Size: 0.1 mg

Store at 4C. Do not freeze.

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### Publications: 7

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**NB500-318****ICAM-1/CD54 Antibody (MEM-111) - BSA Free**

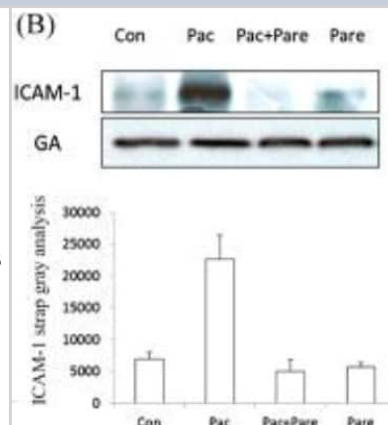
<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C. Do not freeze.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	MEM-111
<b>Preservative</b>	15mM Sodium Azide
<b>Isotype</b>	IgG2a
<b>Purity</b>	Protein A purified
<b>Buffer</b>	Phosphate buffered saline (PBS), pH 7.4
<b>Target Molecular Weight</b>	110 kDa

<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Mouse ICAM-1/CD54 Antibody (MEM-111) - BSA Free (NB500-318) is a monoclonal antibody validated for use in IHC, WB, ELISA, Flow and ICC/IF. Anti-ICAM-1/CD54 Antibody: Cited in 7 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Gene ID</b>	3383
<b>Gene Symbol</b>	ICAM1
<b>Species</b>	Human, Rat, Bovine
<b>Specificity/Sensitivity</b>	The antibody MEM-111 reacts with an extracellular epitope CD54 (ICAM-1), a 85 -110 kDa type I transmembrane glycoprotein (receptor for rhinovirus). The expression of CD54 is upregulated by activation; it is expressed on activated endothelial cells, T lymphocytes, B lymphocytes, monocytes, macrophages, granulocytes and dendritic cells. HLDA VI; WS Code AS A049
<b>Immunogen</b>	Raji human Burkitt's lymphoma cell line (NM_000201.2).

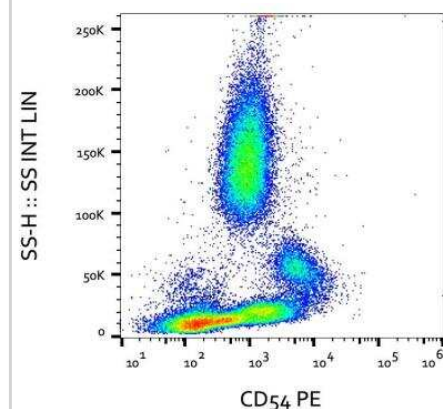
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, CyTOF-ready
<b>Recommended Dilutions</b>	Western Blot 1-2 ug/ml, Flow Cytometry 0.5-4 ug/ml, ELISA 1:2000, Immunohistochemistry 1:10 - 1:500, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 10 ug/ml, Immunohistochemistry-Frozen, CyTOF-ready
<b>Application Notes</b>	WB: Use under non-reducing conditions. Use in IHC-Frozen reported in scientific literature (PMID 26256764). This antibody is CyTOF ready.

## Images

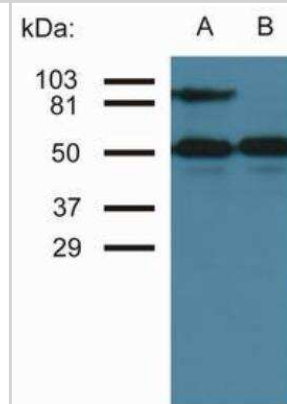
Western Blot: ICAM-1/CD54 Antibody (MEM-111) [NB500-318] - ICAM-1 protein expression levels in rat lung tissue after the different treatments in each group. Immunoblotting showed increase in ICAM-1 after one course of paclitaxel compared with normal lung tissue;  $p < 0.01$ . These changes were reversed by using parecoxib in combination with paclitaxel, while the group that received parecoxib treatment alone resembled the Con group. The bar graph under the protein strap represents the corresponding band intensities; the data are presented as  $x \pm s$  and corrected by GA. Image collected and cropped by CiteAb from the following publication (<https://www.nature.com/articles/srep12977>), licensed under a CC-BY license.



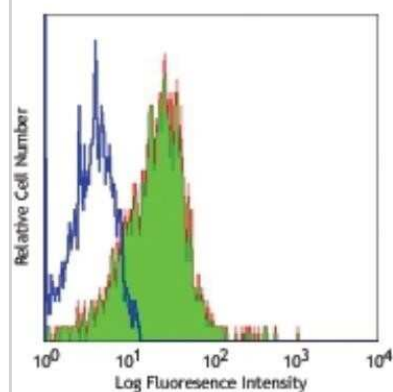
Flow Cytometry: ICAM-1/CD54 Antibody (MEM-111) [NB500-318] - Flow cytometry analysis (surface staining) of CD54 expression in activated human peripheral blood with anti-CD54 (MEM-111) PE



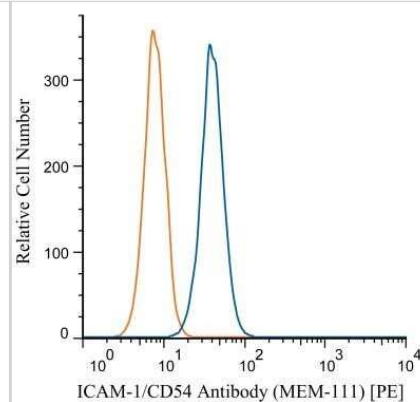
Western Blot: ICAM-1/CD54 Antibody (MEM-111) [NB500-318] - Of CD54 expression in activated (A) and nonactivated (B) Huvec cells by antibody MEM-111. Lower bands represent tubulin as a loading control.



Flow Cytometry: ICAM-1/CD54 Antibody (MEM-111) [NB500-318] - Analysis using the FITC conjugate of NB500-318. Staining of Human peripheral blood lymphocytes with MEM-111 FITC.



Flow Cytometry: ICAM-1/CD54 Antibody (MEM-111) [NB500-318] - Analysis using PE conjugate of NB500-318. A cell surface stain was performed on THP-1 cells with ICAM-1/CD54 antibody (MEM-111) NB500-318 (blue) and a matched isotype control (orange). Cells were incubated in an antibody dilution of 1:100 for 20 minutes at room temperature. Both antibodies were conjugated to PE.



## Publications

Chung NPY, Khan KMF, Kaner RJ et al. HIV induces airway basal progenitor cells to adopt an inflammatory phenotype *Scientific reports* 2021-02-17 [PMID: 33597552] (WB, Human)

Carlos CP, Silva AA, Gil CD, Oliani SM. Pharmacological treatment with galectin-1 protects against renal ischaemia-reperfusion injury *Sci Rep* 2018-06-22 [PMID: 29934646] (IHC-P, Rat)

Thomas A, Ou-Yang HD, Lowe-Krentz L. Biomimetic channel modeling local vascular dynamics of pro-inflammatory endothelial changes. *Biomicrofluidics*. 2016-01-06 [PMID: 26858813]

Liu WJ, Zhong ZJ, Cao LH et al. Paclitaxel-induced lung injury and its amelioration by parecoxib sodium. *Sci Rep*. 2015-08-10 [PMID: 26256764] (IHC-Fr, Rat)

Xiang S, Dong NG, Liu JP et al. Inhibitory effects of suppressor of cytokine signaling 3 on inflammatory cytokine expression and migration and proliferation of IL-6/IFN-gamma-induced vascular smooth muscle cells. *J Huazhong Univ Sci Technolog Med Sci*. 2013-10-01 [PMID: 24142708] (WB, Rat)

Rosano JM, Tousi N, Scott RC et al. A physiologically realistic in vitro model of microvascular networks. *Biomed Microdevices* 2009-10-01 [PMID: 19452279] (Bovine)

Ng CY, Kamisah Y, Faizah O, Jaarin K. The role of repeatedly heated soybean oil in the development of hypertension in rats: association with vascular inflammation *Int J Exp Pathol* 2012-10-01 [PMID: 22974219] (IF/IHC, Rat)



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### **Products Related to NB500-318**

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NBL1-11804	ICAM-1/CD54 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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