

Product Datasheet

CD81 Antibody (M38) - BSA Free NBP1-44861

Unit Size: 0.1 mg

Store at 4C. Do not freeze.

www.novusbio.com



technical@novusbio.com

Publications: 11

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP1-44861

Updated 9/9/2025 v.20.1

Earn rewards for product
reviews and publications.

Submit a publication at www.novusbio.com/publications

Submit a review at www.novusbio.com/reviews/destination/NBP1-44861



NBP1-44861

CD81 Antibody (M38) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Monoclonal
Clone	M38
Preservative	15mM Sodium Azide
Isotype	IgG1
Purity	Protein A purified
Buffer	Phosphate buffered saline (PBS), pH 7.4
Target Molecular Weight	25 kDa

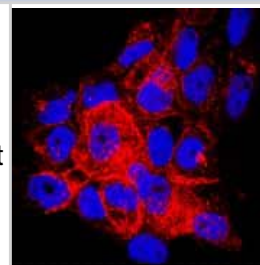
Product Description	
Description	Novus Biologicals Mouse CD81 Antibody (M38) - BSA Free (NBP1-44861) is a monoclonal antibody validated for use in IHC, WB, Flow, ICC/IF and IP. Anti-CD81 Antibody: Cited in 10 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	975
Gene Symbol	CD81
Species	Human, Mouse, Feline, Rabbit
Reactivity Notes	Cat (100%). Use in Mouse reported in scientific publication(PMID: 32573489).
Specificity/Sensitivity	The antibody M38 reacts with CD81, a 25 kDa member of the tetraspanin family, expressed on majority of cells.
Immunogen	MOLT-4, human T-ALL cell line (NM_004356.3).

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation, CyTOF-ready
Recommended Dilutions	Western Blot 1-2 ug/ml, Flow Cytometry 1 ug/ml, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunoprecipitation 1:50, Immunohistochemistry-Paraffin 1:200, CyTOF-ready
Application Notes	Western blotting: positive control: Jurkat cells, non-reducing conditions. Clone M38 has been used for extracellular vesicle flow cytometry.

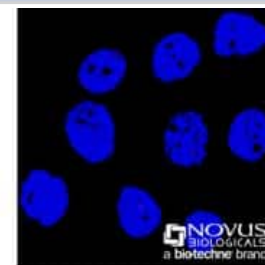


Images

Immunocytochemistry/ Immunofluorescence: CD81 Antibody (M38) [NBP1-44861] - CD81 was detected in immersion fixed HeLa human cervical epithelial carcinoma cell line but is not detected in CD81 knockout (KO) HeLa cell line using Mouse Anti-Human CD81 Monoclonal Antibody (Catalog # NBP1-44861) at 15 ug/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to the plasma membrane.

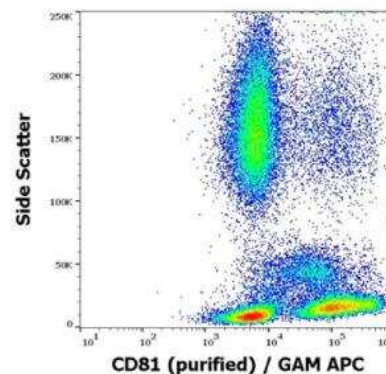


Positive (HeLa cells)

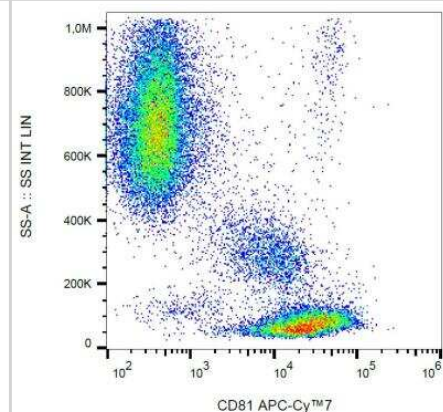


Negative (HeLa KO cells)

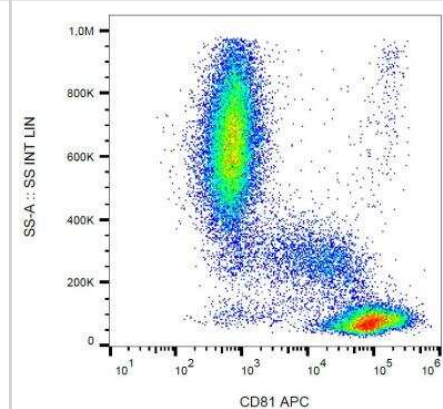
Flow Cytometry: CD81 Antibody (M38) [NBP1-44861] - Surface staining pattern of human peripheral blood stained using anti-human CD81 (M38) purified antibody (concentration in sample 4 ug/ml) GAM APC.



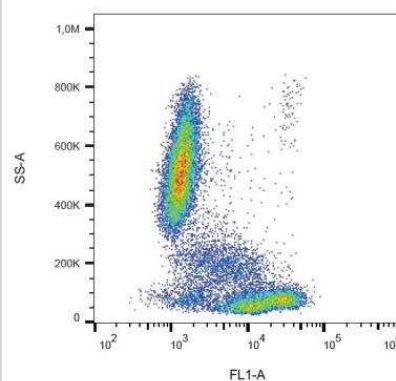
Flow Cytometry: CD81 Antibody (M38) [NBP1-44861] - Surface staining of CD81 in human peripheral blood with anti-CD81 (M38) APC-Cy™7.



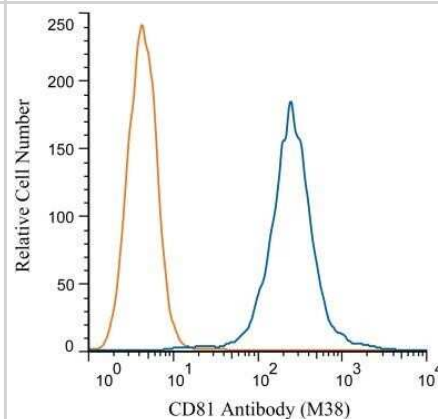
Flow Cytometry: CD81 Antibody (M38) [NBP1-44861] - Human peripheral blood with anti-CD81 (M38) APC.



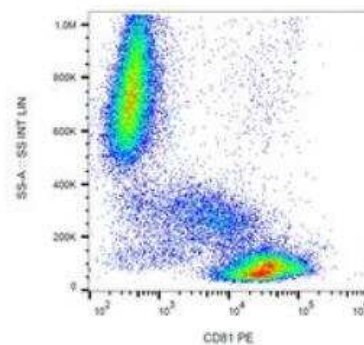
Flow Cytometry: CD81 Antibody (M38) [NBP1-44861] - Human peripheral blood with anti-CD81 (M38) FITC.



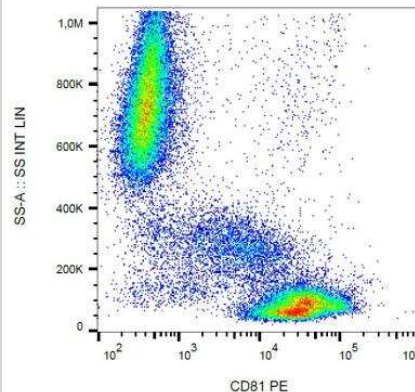
Flow Cytometry: CD81 Antibody (M38) [NBP1-44861] - Flow Cytometry: CD81 Antibody (M38) [PE] [NBP1-44861PE] - A cell surface stain was performed on THP-1 cells with CD81 antibody (M38) NBP1-44861 (blue) and a matched isotype control NBP2-27287 (orange). Cells were incubated in an antibody dilution of 1:100 for 20 minutes at room temperature. Both antibodies were conjugated to PE. Image using the PE form of this antibody.



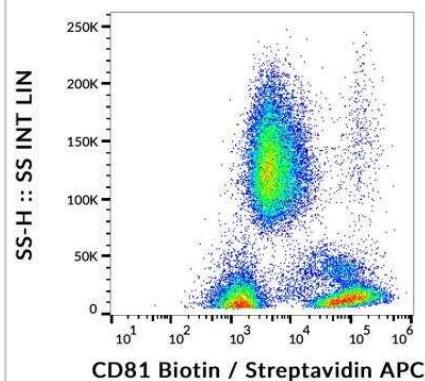
Flow Cytometry: CD81 Antibody (M38) [NBP1-44861] - Staining of CD81 in human peripheral blood with anti-CD81 (M38) PE.



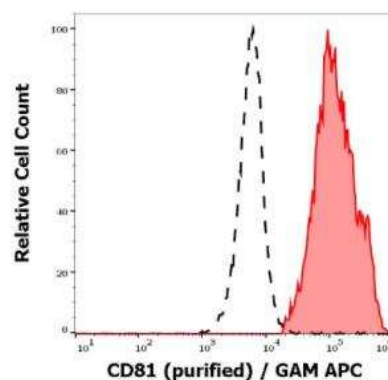
Flow Cytometry: CD81 Antibody (M38) [NBP1-44861] - Staining of CD81 in human peripheral blood with anti-CD81 (M38) PE.



Flow Cytometry: CD81 Antibody (M38) [NBP1-44861] - Staining of CD81 in human peripheral blood with anti-CD81 (M38) biotin, streptavidin-APC.



Flow Cytometry: CD81 Antibody (M38) [NBP1-44861] - Separation of human lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD81 (M38) purified antibody (concentration in sample 4 ug/ml) GAM APC.



Publications

Kapustin A, Tsakali S, Whitehead M et al. Matrix-associated extracellular vesicles modulate human smooth muscle cell adhesion and directionality by presenting collagen VI eLife 2025-09-30 [PMID: 41025959]

Kapustin, A;Tsakali, SS;Whitehead, M;Chennell, G;Wu, MY;Molenaar, C;Kutikhin, A;Bogdanov, L;Sinitsky, M;Rubina, K;Clayton, A;Verweij, FJ;Pegtel, DM;Zingaro, S;Lobov, A;Zainullina, B;Owen, D;Parsons, M;Cheney, RE;Warren, D;Humphries, MJ;Iskratsch, T;Holt, M;Shanahan, CM; Extracellular vesicles stimulate smooth muscle cell migration by presenting collagen VI bioRxiv : the preprint server for biology 2023-08-22 [PMID: 37645762]

Sung SE, Seo MS, Kang KK et al. Isolation and Characterization of Extracellular Vesicle from Mesenchymal Stem Cells of the Epidural Fat of the Spine Asian Spine Journal 2022-04-30 [PMID: 34461688]

Sung SE, Seo MS, Kang KK et al. Mesenchymal Stem Cell Exosomes Derived from Feline Adipose Tissue Enhance the Effects of Anti-Inflammation Compared to Fibroblasts-Derived Exosomes Vet Sci 2021-09-03 [PMID: 34564576] (Feline, Flow)

Details:

Citation using the FITC format of this antibody.

Sjoqvist S, Otake K, Hirozane Y Analysis of Cerebrospinal Fluid Extracellular Vesicles by Proximity Extension Assay: A Comparative Study of Four Isolation Kits International journal of molecular sciences 2020-12-10 [PMID: 33321992] (Human)

Schweitzer KS, Jinawath N, Yonescu R et al. IGSF3 mutation identified in patient with severe COPD alters cell function and motility JCI Insight 2020-06-23 [PMID: 32573489] (WB, IP, Mouse)

Stenovec M, Lasic E, Dominkus PP et al. Slow Release of HIV-1 Protein Nef from Vesicle-like Structures Is Inhibited by Cytosolic Calcium Elevation in Single Human Microglia. Mol Neurobiol 2018-04-21 [PMID: 29679260]

Escola JM, Kleijmeer MJ, Stoorvogel W et al. Selective enrichment of tetraspan proteins on the internal vesicles of multivesicular endosomes and on exosomes secreted by human B-lymphocytes. J Biol Chem. 1998-08-01 [PMID: 9685355]

Imai T, Kakizaki M, Nishimura M et al. Molecular analyses of the association of CD4 with two members of the transmembrane 4 superfamily, CD81 and CD82. J Immunol. 1995-08-01 [PMID: 7636191]

Imai T, Yoshie O. C33 antigen and M38 antigen recognized by monoclonal antibodies inhibitory to syncytium formation by human T cell leukemia virus type 1 are both members of the transmembrane 4 superfamily and associate with each other and with CD4 or CD8 in T cells. J Immunol. 1993-12-01 [PMID: 8245480]

Fukudome K, Furuse M, Imai T et al. Identification of membrane antigen C33 recognized by monoclonal antibodies inhibitory to human T-cell leukemia virus type 1 (HTLV-1)-induced syncytium formation: altered glycosylation of C33 antigen in HTLV-1-positive T cells. J Virol. 1992-03-01 [PMID: 1738199]



Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP1-44861

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)

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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NBP1-44861

Earn gift cards/discounts by submitting a publication using this product:
www.novusbio.com/publications

