

Product Datasheet

CD81 Antibody - BSA Free NBP2-20564

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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NBP2-20564

CD81 Antibody - BSA Free

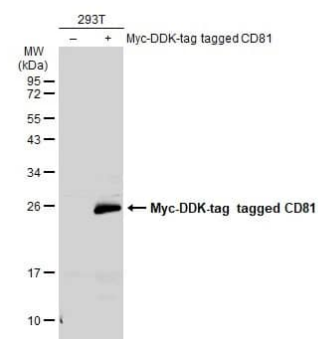
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.025% Proclin 300
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	PBS, 20% Glycerol
Target Molecular Weight	26 kDa

Product Description	
Host	Rabbit
Gene ID	975
Gene Symbol	CD81
Species	Human, Mouse, Rat
Reactivity Notes	Bovine (89%).
Immunogen	Recombinant protein encompassing a sequence within the center region of human CD81. The exact sequence is proprietary.

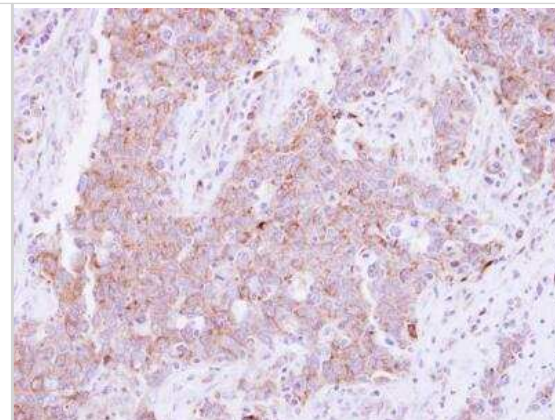
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Block/Neutralize
Recommended Dilutions	Western Blot 1:500-1:3000, Flow Cytometry 1:50-1:200, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence Assay dependent, Immunohistochemistry-Paraffin 1:100-1:1000, Block/Neutralize Assay dependent

Images

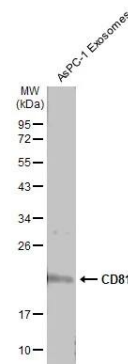
Western Blot: CD81 Antibody [NBP2-20564] - Non-transfected (-) and transfected (+) 293T whole cell extracts (30 ug) were separated by 12% SDS-PAGE, and the membrane was blotted with CD81 antibody (NBP2-20564) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



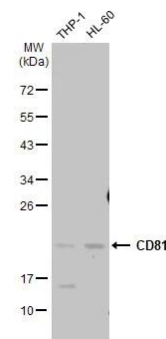
Immunohistochemistry-Paraffin: CD81 Antibody [NBP2-20564] - CD81 Antibody Immunohistochemical analysis of paraffin-embedded Lung Papillary Adenocarcinoma, using antibody at 1:250 dilution.



Western Blot: CD81 Antibody [NBP2-20564] - AsPC-1 whole cell extracts (5.5 ug) was separated by 12% SDS-PAGE, and the membrane was blotted with CD81 antibody (NBP2-20564) diluted at 1:500. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



Western Blot: CD81 Antibody [NBP2-20564] - Various whole cell extracts (30 ug) were separated by 12% SDS-PAGE, and the membrane was blotted with CD81 antibody (NBP2-20564) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.

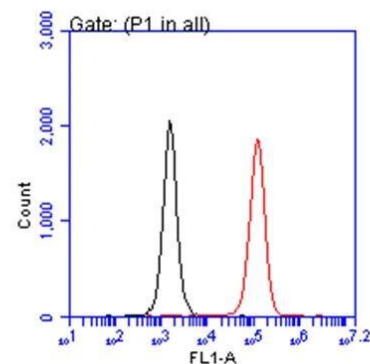


CD81 antibody (NBP2-20564) detects CD81 by flow cytometry analysis. Sample: THP-1 cell.

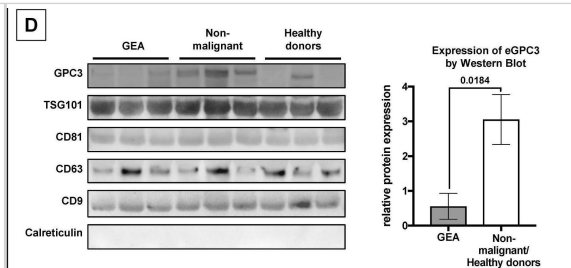
Black: Unlabelled sample was used as a control.

Red: CD81 antibody (NBP2-20564) dilution: 1:50.

Acquisition of 20,000 events were collected for FACS analysis.



Decreased expression levels of eGPC3 in patients with gastro-esophageal adenocarcinomas (GEA). (A) Nanoparticle tracking analysis (NTA) diagram of nanoparticle concentration and average particle size from serum samples of patients with GEA (n = 9; blue line), healthy donors (n = 9; red line) and patients with non-malignant disease (n = 9; green line). (B) Transmission electron microscopy (TEM) images of serum derived vesicles (black arrowheads). (C) Quantification of exosome-associated proteins CD9, CD63 and TSG101 determined by fluorescent NTA ($p < 0.05$, two-paired student's t-test). (D) Protein expression analyses of exosome-derived GPC3, TSG101, CD81, CD63, and CD9. Calreticulin was used as a marker for cytoplasm-derived contamination (bottom panel). Representative quantification of GPC3 levels of serum-derived exosomes from patients with GEA compared to serum-derived exosomes from healthy donors and patients with non-malignant disease (right panel, $p < 0.05$ two-paired student's t-test). Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/31100935>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Zaib W, Kaviani C, Kang X et al. Porcine hemagglutinating encephalomyelitis virus VW572 (not Gent/PS412 and Labadie) uses the CD81 receptor and MVB-derived exosomal pathway for efficient entry and spread in neuronal cells. *Journal of Virology* 2025-10-08 [PMID: 41059972]

Xu J, Wang Y, Hsu CY, Gao Y et al. Human perivascular stem cell-derived extracellular vesicles mediate bone repair *Elife* 2019-09-05 [PMID: 31482845]

Ganig N, Baenke F, Thepkaysone M et al. Proteomic Analyses of Fibroblast- and Serum-Derived Exosomes Identify QSOX1 as a Marker for Non-invasive Detection of Colorectal Cancer *Cancers* 2021-03-17 [PMID: 33802764] (WB, Human)

Oehme F, Krahl S, Gyorffy B et al. Low level of exosomal long non-coding RNA HOTTIP is a prognostic biomarker in colorectal cancer *RNA Biol* 2019-07-07 [PMID: 31251124]

Fernandez A, Meechan DW, Karpinski BA et al. Expression of Glypican 3 is an Independent Prognostic Biomarker in Primary Gastro-Esophageal Adenocarcinoma and Corresponding Serum Exosomes *J Clin Med* 2019-05-16 [PMID: 31100935] (WB, Human)



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 NBP2-20564

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP1-77039PEP	CD81 Antibody Blocking Peptide

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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