

Product Datasheet

CD81 Antibody - BSA Free NBP1-77039

Unit Size: 0.1 mg

Store at 4C.

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NBP1-77039

CD81 Antibody - BSA Free

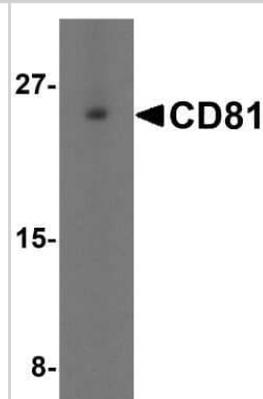
Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Peptide affinity purified
Buffer	PBS
Target Molecular Weight	25 kDa

Product Description	
Description	Novus Biologicals Rabbit CD81 Antibody - BSA Free (NBP1-77039) is a polyclonal antibody validated for use in IHC, WB, ELISA and ICC/IF. Anti-CD81 Antibody: Cited in 8 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	975
Gene Symbol	CD81
Species	Human, Mouse, Rat
Immunogen	Antibody was raised against a 20 amino acid synthetic peptide near the amino terminus of human CD81. The immunogen is located within amino acids 30 - 80 of CD81. Amino Acid Sequence: HDPQTTNLLYLELGDKPAPN

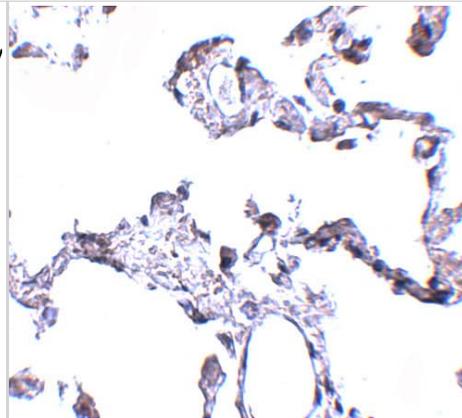
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 2.5 ug/ml, ELISA 1:100-1:2000, Immunohistochemistry 2 ug/ml, Immunocytochemistry/ Immunofluorescence 10 ug/ml, Immunohistochemistry-Paraffin 2 ug/ml

Images

Western Blot: CD81 Antibody [NBP1-77039] - Analysis in human lung tissue lysate with antibody at 1 ug/mL in (A) the absence and (B) the presence of blocking peptide.

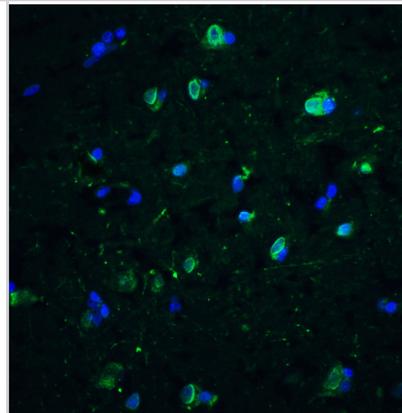


Immunohistochemistry: CD81 Antibody - BSA Free [NBP1-77039] - Immunohistochemistry of CD81 in human lung tissue with CD81 antibody at 5 u/mL.

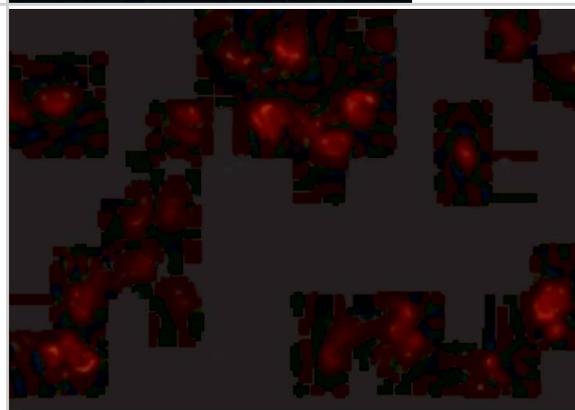


Immunocytochemistry/ Immunofluorescence: CD81 Antibody - BSA Free [NBP1-77039] - Immunofluorescence of CD81 in human brain tissue with CD81 antibody at 10 u/ml.

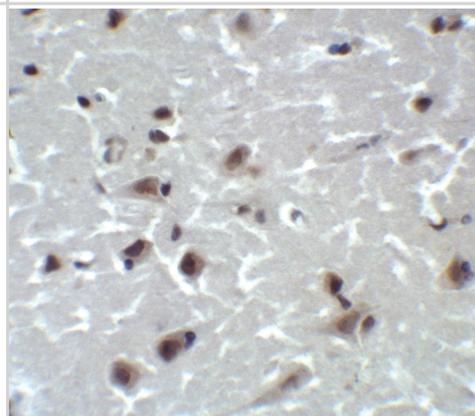
Green: CD81 Antibody
Blue: DAPI staining



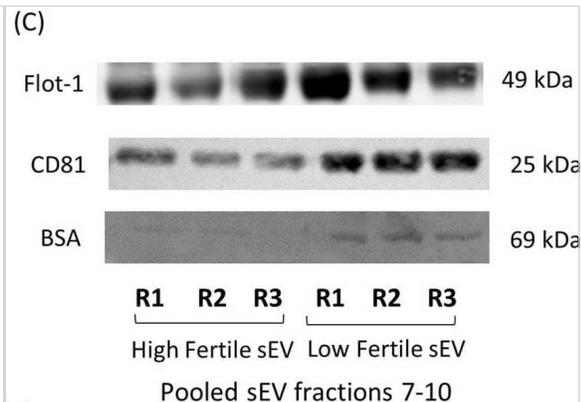
Immunocytochemistry/ Immunofluorescence: CD81 Antibody - BSA Free [NBP1-77039] - Immunofluorescence of CD81 in A549 cells with CD81 antibody at 20 ug/mL.



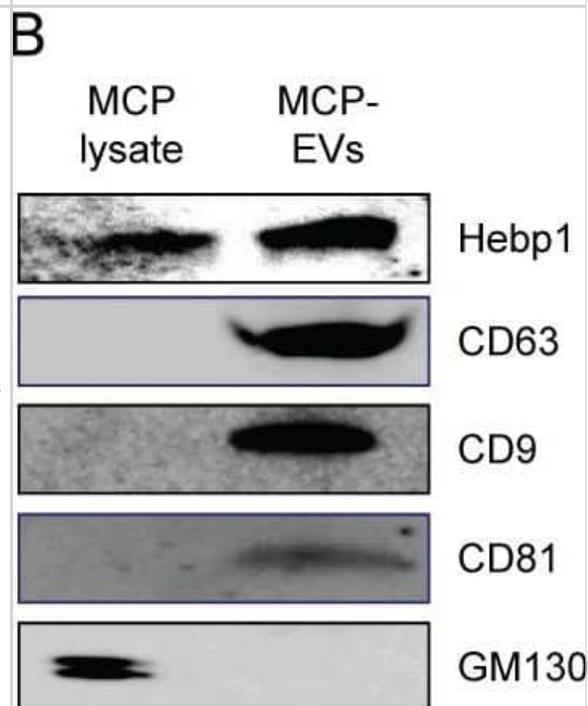
Immunohistochemistry: CD81 Antibody - BSA Free [NBP1-77039] - Immunohistochemistry of CD81 in human brain tissue with CD81 antibody at 2 ug/ml.



Blood plasma sEV from high fertile and low-fertile both confirmed sEV characteristics and differ in total protein concentrations. (A) Total protein content of sEV from low fertile dairy cow plasma are significantly higher than the high fertile. Values are presented as mean \pm SD (**P < 0.001; Mann–Whitney test). (B) However, there's no significant difference between the particle number (yield) according to the nano-particle tracking analysis (NTA) results. Values are presented as mean \pm SD (**P < 0.001; Mann–Whitney test). (C) Representation of western blot sEV/exosome marker CD81, FLOT-1 and negative sEV/exosome marker BSA for pooled sEV fractions 7–10 of HF-EXO and LF-EX. Presence of FLOT-1 and CD81 and less abundance of BSA confirmed sEV/exosome. The full western blot images are available in the Supplementary File 3 (D) The size of sEV (nm) is within the defined size (30–200 nm)—average nano-particle tracking analysis (NTA) particle size distribution of HF-EXO and LF-Exo biological replicates (n = 10 each). There was no statistically significant difference between HF-EXO and LF-EXO particle size distributions (ns represents P > 0.05; Mann–Whitney test). (E) Spherical shape was confirmed in electron micrographs of exosomes from both (i) HF-EXO and (ii) LF-EXO. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/37012302>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Hebp1 is delivered by MCP-EVs and contributes to nerve regeneration. (A) Representative transmission electron microscopy (TEM) phase images for detecting isolated MCP-EVs. Scale bar = 100 nm. (B) Representative Western blot for Hebp1, EV positive markers (CD63, CD9 and CD81) or EV negative marker (GM130) in MCPs and MCP-EVs. (C, D) Expression of Hebp1 in MCP-EVs infected with lentivirus expressing shHebp1 or shCon at three doses (1×10^3 , 5×10^4 , and 1×10^4 TU/ml culture medium) for at least 3 days. (E, F) Densitometric quantification of Hebp1 protein bands using an image analyzer. Results are presented as means \pm SEM (n = 4). (G, H) Immunofluorescence staining for NF in mouse MPG tissues exposed to LPS (2.5 μ g/ml) and other indicated conditions for 5 days (G). Lengths of NF-positive neurites in MPG tissues, quantified using an image analyzer (H). Results are presented as means \pm SEM (n = 4). Scale bar, 100 μ m. (I, J) Migration assays of mouse Schwann cells exposed to LPS (2.5 μ g/ml) and other indicated conditions for 24 hours (I). Number of migrated cells in the red dotted rectangle, quantified using an image analyzer (J). Results are presented as means \pm SEM (n = 4; **P < 0.01, ***P < 0.001). The relative ratio of the shCon (control) group was defined as 1. MCPs, mouse cavernous pericytes; EVs, extracellular vesicles; LPS, lipopolysaccharide; MPG, major pelvic ganglion; PBS, phosphate-buffered saline; ns, not significant. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/37324943>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Larissa Jank, Ajay Kesharwani, Taekyung Ryu, Deepika Joshi, Dimitrios C. Ladakis, Matthew D. Smith, Saumitra Singh, Tanina Arab, Kenneth W. Witwer, Peter A. Calabresi, Chan-Hyun Na, Pavan Bhargava Characterization of spinal cord tissue-derived extracellular vesicles in neuroinflammation *Journal of Neuroinflammation* 2024-06-08 [PMID: 38851724]

Jiao W, Hao J, Liu JM et al. Mesenchymal stem cells-derived extracellular vesicle-incorporated H19 attenuates cardiac remodeling in rats with heart failure *The Kaohsiung journal of medical sciences* 2023-10-27 [PMID: 37885317] (Western Blot, Rat)

Turner N, Abeysinghe P, Flay H et al. SWATH-MS Analysis of Blood Plasma and Circulating Small Extracellular Vesicles Enables Detection of Putative Protein Biomarkers of Fertility in Young and Aged Dairy Cows *Journal of proteome research* 2023-11-03 [PMID: 37830897]

Li H, Bräunig S, Dhapolar P et al. Identification of phenotypically, functionally, and anatomically distinct stromal niche populations in human bone marrow based on single-cell RNA sequencing *eLife* 2023-03-06 [PMID: 36876630] (IHC-P, Human)

Ock J, Wu J, Liu F et al. Heme-binding protein 1 delivered via pericyte-derived extracellular vesicles improves neurovascular regeneration in a mouse model of cavernous nerve injury *International Journal of Biological Sciences* 2023-05-19 [PMID: 37324943] (EM, Mouse)

Abeysinghe P, Turner N, Mosaad E et al. Dynamics of inflammatory cytokine expression in bovine endometrial cells exposed to cow blood plasma small extracellular vesicles (sEV) may reflect high fertility *Scientific reports* 2023-04-03 [PMID: 37012302] (WB, Bovine)

Turner N, Abeysinghe P, Sadowski P, Mitchell M Cross-species proteomic and microRNA comparison of extracellular vesicles in human milk, cow's milk, and infant formula products: moving towards next generation infant formula products *bioRxiv* 2023-02-24 (Western Blot, Bovine, Human)

Yin GN, Shin TY, Ock J et al. Pericyte derived extracellular vesicles mimetic nanovesicles improves peripheral nerve regeneration in mouse models of sciatic nerve transection *International journal of molecular medicine* 2022-02-01 [PMID: 34935051] (WB, Mouse)

Fritsch J, Tchikov V, Hennig L et al. A toolbox for the immunomagnetic purification of signalling organelles *Traffic* 2018-12-20 [PMID: 30569578] (WB, Human)





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Products Related to NBP1-77039

NBP1-77039PEP	CD81 Antibody Blocking Peptide
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

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