Product Datasheet

VCAM-1/CD106 Antibody (6G9) - BSA Free
NBP1-47491

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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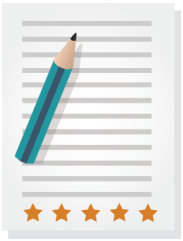
Updated 12/20/2023 v.20.1



NBP1-47491

VCAM-1/CD106 Antibody (6G9) - BSA Free

Product Information

Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	6G9
Preservative	0.03% Sodium Azide
Isotype	IgG1
Purity	Ammonium sulfate precipitation
Buffer	PBS
Target Molecular Weight	81 kDa

Product Description

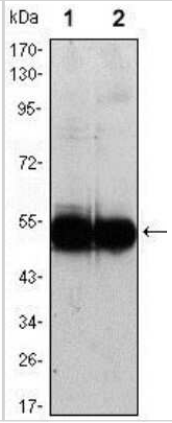
Host	Mouse
Gene ID	7412
Gene Symbol	VCAM1
Species	Human, Mouse
Reactivity Notes	Use in Mouse reported in scientific literature (PMID: 32243809).
Immunogen	This VCAM-1/CD106 Antibody (6G9) was developed against a purified recombinant fragment of human VCAM-1 expressed in E. coli. [Uniprot: P19320]

Product Application Details

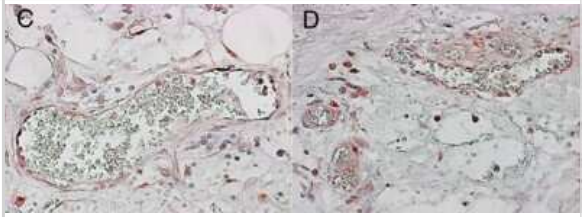
Applications	Western Blot, Simple Western, ELISA, Immunoblotting, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500-1:2000, Simple Western 1:1000, ELISA 1:10000, Immunohistochemistry 1:200-1:1000, Immunoprecipitation reported in scientific literature (PMID 28569748), Immunohistochemistry-Paraffin 1:200-1:1000, Immunoblotting reported in scientific literature (PMID 28569748)
Application Notes	In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. Separated by Size-Wes, Sally Sue/Peggy Sue.

Images

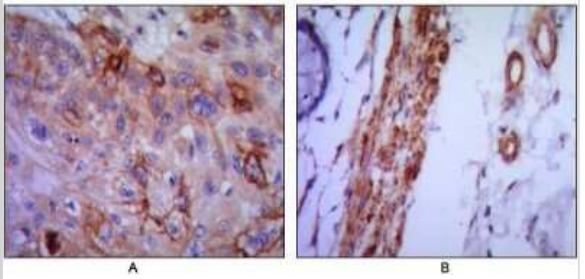
Western Blot: VCAM-1/CD106 Antibody (6G9) [NBP1-47491] - Using VCAM1 mouse mAb against (1) HUVEC and (2) EC cell lysate.



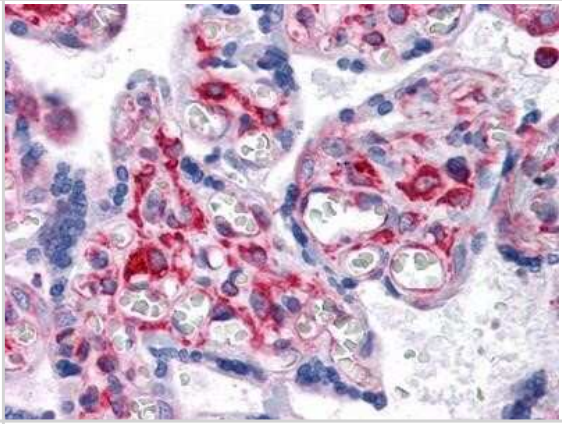
Immunohistochemistry: VCAM-1/CD106 Antibody (6G9) [NBP1-47491] - Photomicrographs of two separate gut sections from a patient with EHEC colitis. Panels (C) and (D) are stained to show VCAM-1/CD106 expression in endothelium, indicating inflammatory activation (40x magnification). Image collected and cropped by CiteAb from the following publication (https://dx.plos.org/10.1371/journal.pone.0055278), licensed under a CC-BY license.



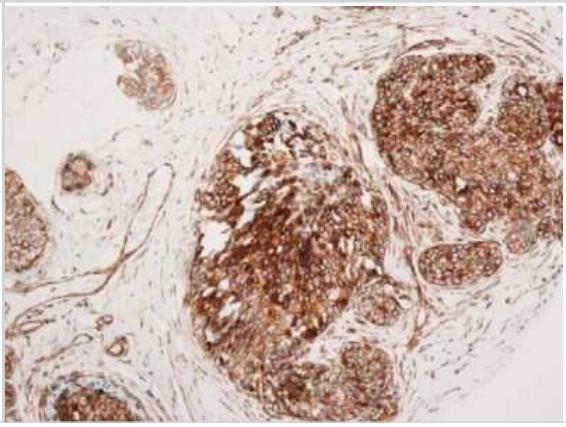
Immunohistochemistry-Paraffin: VCAM-1/CD106 Antibody (6G9) [NBP1-47491] - (A) human lung cancer and (B) colon cancer using VCAM1 mouse mAb with DAB staining.

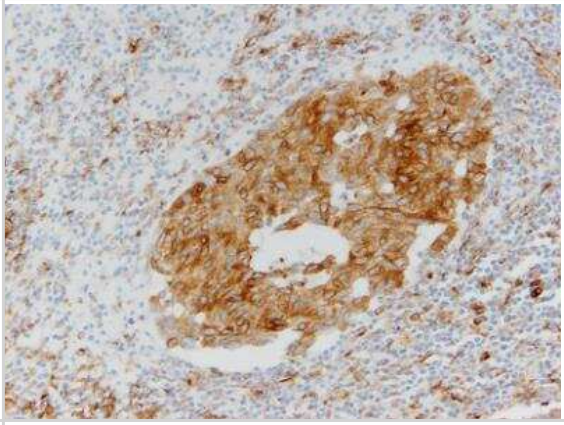
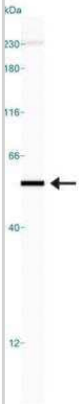
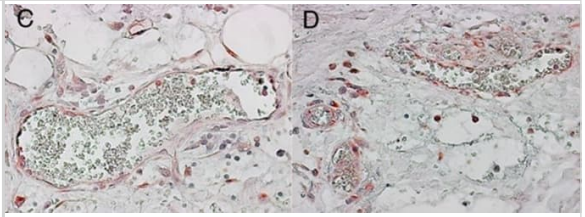
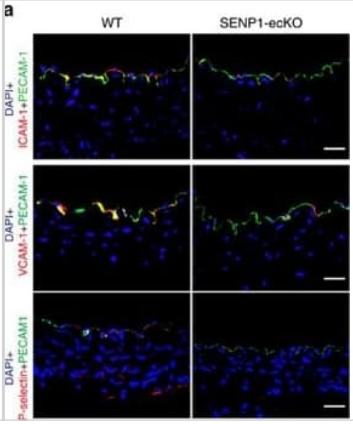


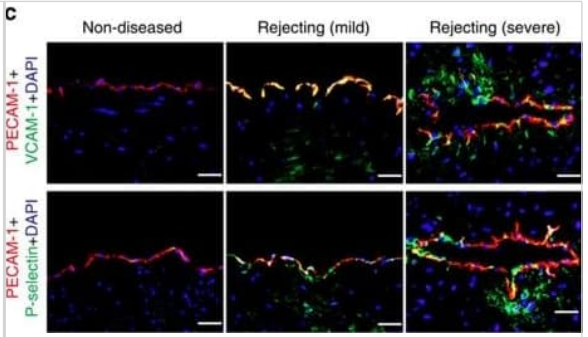
Immunohistochemistry-Paraffin: VCAM-1/CD106 Antibody (6G9) [NBP1-47491] - Human placenta tissues using VCAM1 mouse mAb.



Immunohistochemistry: VCAM-1/CD106 Antibody (6G9) [NBP1-47491] - Breast carcinoma, cytoplasmic staining. IHC image submitted by a verified customer review.



Immunohistochemistry-Paraffin: VCAM-1/CD106 Antibody (6G9) [NBP1-47491] - FFPE section of human lung cancer. Image at 20X magnification. IHC-P image submitted by a verified customer review.	
Simple Western: VCAM-1/CD106 Antibody (6G9) [NBP1-47491] - Lane view shows a specific band for CD106/VCAM1 in 0.5 mg/mL of HUVEC lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.	
Photomicrographs of two separate gut sections from a patient with EHEC colitis.Panels (A) and (B) are stained with CD31 to enumerate endothelium lining the vessels (40× magnification). (C) and (D) are stained to show VCAM-1 expression in endothelium, indicating inflammatory activation (40× magnification).	
Small interference RNA targeting Raptor and Rictor disrupts BMAL1 accumulation in HNSCCTargeted disruption of Raptor (A-B) and Rictor (C-D) using siRNA results in a dose-dependent downregulation of BMAL1 in HNSCC cells. E. Disruption of PTEN by protein oxidation causes activation of mTOR signaling, resulting in accumulation of BMAL1. Notably, inhibition of mTOR signaling, particularly mTORC1 and mTORC2, results in restoration of normal BMAL1 levels in the epidermis of mice and head and neck cancer cells. These results demonstrate a novel role for mTOR in regulating nuclear levels of the core clock gene BMAL1. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/27285754), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	



Identification of an HDR-enhancing fragment of 53BP1. a Schematic diagram of full-length human 53BP1 protein showing the minimal focus forming region including the oligomerization domain (OD), a glycine-arginine rich (GAR) motif, a tandem Tudor domain, and the ubiquitin-dependent recruitment (UDR) motif. BRCT repeats at the extreme C-terminus are present. b Different truncated 53BP1 proteins, DN1, DN1S, DN2, DN3, and DN4, were tested for their relative expression by western blot using anti-HA antibody in HeLa cells transduced with empty vector (mock) or lentiviral vectors encoding HA-tagged 53BP1 fragments DN1, DN1S, DN2, DN3, or DN4. Actin is shown as a loading control. c, e, g Representative immunofluorescence (IF) images of HA-tagged DN1 and DN1S at nuclear foci. Cells were either exposed to 2 Gy IR or no IR (control) and fixed 2 h later. Scale bars represent 20 μm. c Representative IF images showing co-localization of HA-tagged DN1 or DN1S with endogenous 53BP1 foci. d Number (no.) of HA+ (DN1S) foci, co-localized HA+/endogenous 53BP1+ (co-localization) foci, or endogenous 53BP1+ (E-53BP1) only foci per IR-treated HeLa cell expressing DN1S. Individual quantifications of foci from 50 cells in each group are shown. Red lines are drawn at the mean number of foci per positive cell. e Representative IF images showing HA-tagged DN1 or DN1S and RIF1 recruitment to IR-induced DNA repair foci. f Quantification of cells with ≥3 RIF1 foci in control cells or IR cells with DN1, DN1S or without vector (mock). g Representative IF images showing HA-tagged DN1S and BRCA1 recruitment to DNA repair foci in control cells. h Quantification of the number of cells with ≥3 BRCA1 foci in control cells or IR cells, with DN1, DN1S or without vector (mock). In panels f and g, data are presented as the mean ± SEM of counts of 150 cells each, from three independent fields, and black circles indicate individual counts. Statistics for panels d, f, and g: ANOVA. ns indicates not significant, *$p < 0.05$, ***$p < 0.001$, and ****$p < 0.0001$. Source data is available in Source Data file Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/31253785), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

Publications

Park, JY;Mani, S;Clair, G;Olson, HM;Paurus, VL;Ansong, CK;Blundell, C;Young, R;Kanter, J;Gordon, S;Yi, AY;Mainigi, M;Huh, DD; A microphysiological model of human trophoblast invasion during implantation Nature communications [PMID: 35292627] (ICC/IF, Human)

Chen PY, Qin L, Li G et al. Smooth Muscle Cell Reprogramming in Aortic Aneurysms Cell Stem Cell 2020-04-02 [PMID: 32243809] (Mouse)

Qiu C, Wang Y, Zhao H et al. The critical role of SENP1-mediated GATA2 deSUMOylation in promoting endothelial activation in graft arteriosclerosis. Nat Commun. 2017-06-01 [PMID: 28569748] (IP, IB, Human)

Chen PY, Qin L, Baeyens N et al. Endothelial-to-mesenchymal transition drives atherosclerosis progression. J Clin Invest 2015-10-26 [PMID: 26517696] (WB)

Ullrich S, Bremer P, Neumann-Grutzeck C et al. Symptoms and Clinical Course of EHEC O104 Infection in Hospitalized Patients: A Prospective Single Center Study. PLoS One 2013-01-01 [PMID: 23460784] (IHC-P, Human)

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NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NBP2-38223PEP	VCAM-1/CD106 Recombinant Protein Antigen

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