Product Datasheet

Vinculin Antibody (hVIN-1)
NB600-1293

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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Reviews: 1 Publications: 12

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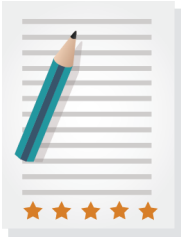
Updated 5/23/2024 v.20.1



NB600-1293

Vinculin Antibody (hVIN-1)

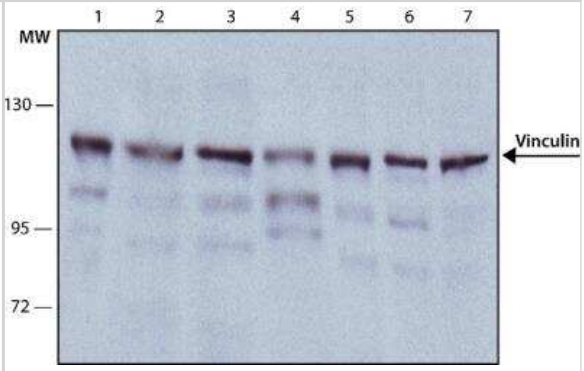
Product Information	
Unit Size	0.1 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	hVIN-1
Preservative	0.9% Sodium Azide
Isotype	IgG1
Purity	Unpurified
Buffer	Ascites
Target Molecular Weight	116 kDa

Product Description	
Host	Mouse
Gene ID	7414
Gene Symbol	VCL
Species	Human, Mouse, Rat, Amphibian, Bovine, Canine, Chicken, Turkey
Reactivity Notes	Frog (100%). Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Mouse-On-Mouse blocking reagent may be needed for IHC and ICC experiments to reduce high background signal. You can find these reagents under catalog numbers PK-2200-NB and MP-2400-NB. Please contact Technical Support if you have any questions.
Marker	Focal Adhesion Marker
Specificity/Sensitivity	Specifically labels vinculin at cell-cell and cell-substrate contacts. Shows cross-reactivity with smooth muscle metavinculin.
Immunogen	Purified human vinculin from uterus.

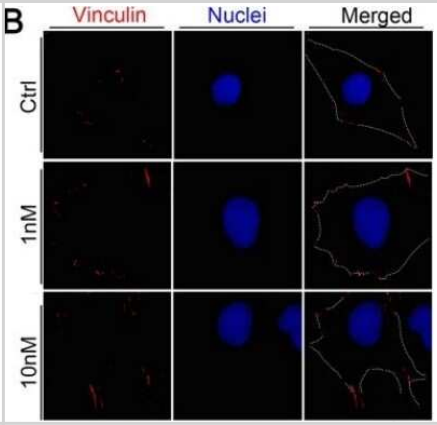
Product Application Details	
Applications	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Single Cell Western
Recommended Dilutions	Western Blot 1:200 - 1:400, Simple Western, Immunohistochemistry 1:10 - 1:500, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Frozen 1:10 - 1:500, Single Cell Western 1:30
Application Notes	Simple Western reported by an internal validation. Separated by Size-All, antibody dilution of 1:5; matrix was 12-230 kDa. Single Cell Western reported by an internal validation on treated LNCap cells at a 1:30 dilution

Images

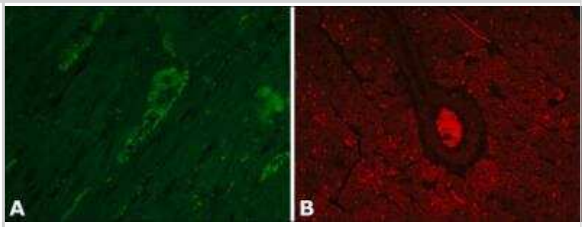
Western Blot: Vinculin Antibody (hVIN-1) [NB600-1293] - Cell line lysates were separated on SDS-PAGE and probed with 1:200 Monoclonal Anti-Vinculin Clone: hVIN-1. The antibody was developed using Goat Anti-Mouse IgG-Peroxidase and a chemiluminescent substrate. Lanes: 1.HeLa 2.COS7 3.NIH-3T3 4.RAT2 5.CHO 6.MDBK 7.MDCK



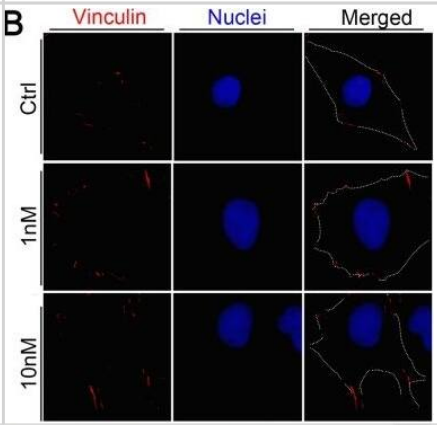
Immunocytochemistry/Immunofluorescence: Vinculin Antibody (hVIN-1) [NB600-1293] - Immunofluorescence images of LM8 cells treated with 0 nM, 1 nM, or 10 nM eribulin and stained for vinculin (red) and nucleus (blue) (left). Dotted line shows the cell shape. Scale bar: 10 um. Quantitative analysis of the area of vinculin staining (right). Values are mean +/- SEM (less than or equal to 30 cells per group). **P < 0.01. Image collected and cropped by CiteAb from the following publication (//pubmed.ncbi.nlm.nih.gov/30719211/) licensed under a CC-BY license.



Immunohistochemistry: Vinculin Antibody (hVIN-1) [NB600-1293] - Enhanced Validation-By Independent Antibodies: Immunohistochemistry. Formalin-fixed, paraffin-embedded Rat Heart sections stained with 15 ug/mL Anti-Vinculin antibody produced in Rabbit (Cat. No. V4139) (A). The antibody was developed using Anti-Rabbit IgG (whole molecule)-FITC antibody produced in Goat (Cat. No. F9887), and 15 ug/mL Monoclonal Anti-Vinculin antibody produced in Mouse, Clone: hVIN1 (Cat. No. V9131) (B). The antibody was developed using Rabbit Anti-Mouse IgG-Cy3 conjugate antibody. Results: Two Anti-Vinculin antibodies, V4139 (A) and V9131 (B), target different regions of Vinculin show similar staining profiles between the two antibodies, demonstrating Independent Antibody Verification.



Reduction of directionality and focal adhesion turnover by low eribulin concentrations. (B) immunofluorescence images of LM8 cells treated with 0 nM, 1 nM, or 10 nM eribulin and stained for vinculin (red) and nucleus (blue) (left). Dotted line shows the cell shape. Scale bar: 10 um. Quantitative analysis of the area of vinculin staining (right). Values are mean +/- SEM (>=30 cells per group). **P < 0.01. Image collected and cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/30719211), licensed under a CC-BY licence.



Publications

Li H, Huynh TN, Duong MT et al. ACAT1/SOAT1 Blockade Suppresses LPS-Mediated Neuroinflammation by Modulating the Fate of Toll-like Receptor 4 in Microglia International journal of molecular sciences 2023-03-15 [PMID: 36982689] (WB, Mouse)

Ventura E, Xie C, Buraschi S et al. Complexity of progranulin mechanisms of action in mesothelioma Journal of experimental & clinical cancer research : CR 2022-12-05 [PMID: 36471440] (ICC/IF, Human)

Li Y, Li C, Liu Q et al. Loss of Acta2 in cardiac fibroblasts does not prevent the myofibroblast differentiation or affect the cardiac repair after myocardial infarction Journal of molecular and cellular cardiology 2022-08-22 [PMID: 36007455] (IHC-Fr, Mouse)

Details:
IHC-Fr dilution 1:100

Wu L, Xu Y, Xi K et al. Regulation of macrophage subtype via injectable micro/nano-structured porous microsphere for reprogramming osteoimmune microenvironment Chemical Engineering Journal 2022-07-01 (ICC/IF, Rat)

Costanzo F, Martinez Diez M, Santamaria Nunez G et al. Promoters of ASCL1- and NEUROD1-dependent genes are specific targets of lurbinectedin in SCLC cells EMBO molecular medicine 2022-03-09 [PMID: 35263037] (WB, Human)

Uzureau S, Lecordier L, Uzureau P et Al. APOL1 C-Terminal Variants May Trigger Kidney Disease through Interference with APOL3 Control of Actomyosin Cell Rep 2020-03-17 [PMID: 32187552] (ICC/IF, Human)

Wu L, Gu Y, Liu L et al. Hierarchical micro/nanofibrous membranes of sustained releasing VEGF for periosteal regeneration Biomaterials 2019-10-18 [PMID: 31655445] (ICC/IF, Human)

Miao Q, Hill MC, Chen F et al. SOX11 and SOX4 drive the reactivation of an embryonic gene program during murine wound repair Nat Commun [PMID: 31492871] (ICC/IF, IF/IHC, Human)

Watanabe K, Yui Y, Sasagawa S et al. Low-dose eribulin reduces lung metastasis of osteosarcoma in vitro and in vivo Oncotarget 2019-01-04 [PMID: 30719211] (ICC/IF, Mouse)

Yadav N, Jaber FL, Sharma Y et al. Efficient reconstitution of hepatic microvasculature by endothelin receptor antagonism in liver sinusoidal endothelial cells. Hum. Gene Ther. 2018-09-28 [PMID: 30266073] (ICC/IF, Mouse)

da Rocha JT, Trapani L, Segatto M et al. Molecular Effects of Diphenyl Diselenide on Cholesterol and Glucose Cell Metabolism. Curr Med Chem. 2013-01-01 [PMID: 23590714]

Chianale, F et al. Diacylglycerol Kinase-alpha Mediates HGF-induced Epithelial Cell Scatter by Regulating Rac Activation Membrane Ruffling. Mol. Biol. Cell. 10.1091/mbc.E07-02-0177. 2007-09-01 [PMID: 17898083]

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Products Related to NB600-1293

NBL1-17706	Vinculin Overexpression Lysate
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
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.

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