

Product Datasheet

PDLIM4 Antibody - BSA Free NBP1-80833

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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NBP1-80833

PDLIM4 Antibody - BSA Free

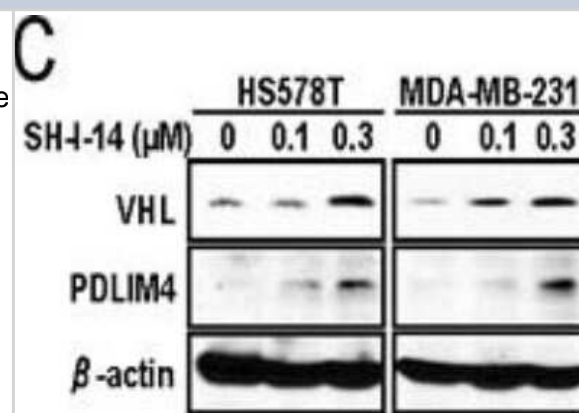
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description	
Host	Rabbit
Gene ID	8572
Gene Symbol	PDLIM4
Species	Human, Rat
Reactivity Notes	Reactivity reported in scientific literature (PMID: 23435261)
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: HSVTLRGPSPWGFRLVGGRRDFSAPLTISR VHAGSKAALAALCPGDLIQAINGES TELMTHLEAQNRIKGCHDHLTLSVSRPEGRSWPSAPDDSKAQAHRIHIDPE

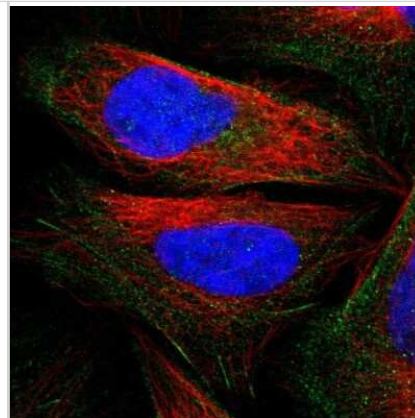
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:20 - 1:50, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:20 - 1:50
Application Notes	WB reported in scientific literature (PMID: 29137356). For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

Images

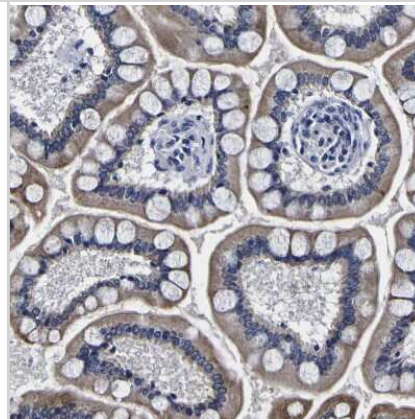
Western Blot: PDLIM4 Antibody [NBP1-80833] - SH-I-14 induces demethylation and re-expression of tumor suppressor genes. Cells were treated with SH-I-14 for 48 hr and subjected to western blot analysis. The lysates from the cells treated with SH-I-14 for 48 hr were analyzed by western blot with indicated antibodies. beta-actin was used as a loading control. Image collected and cropped by CiteAb from the following publication (<https://www.oncotarget.com/fulltext/4054>), licensed under a CC-BY license.



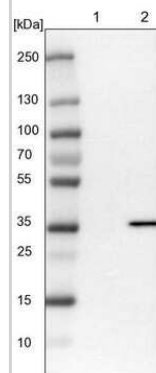
Immunocytochemistry/Immunofluorescence: PDLIM4 Antibody [NBP1-80833] - Staining of human cell line U-2 OS shows localization to actin filaments. Antibody staining is shown in green.



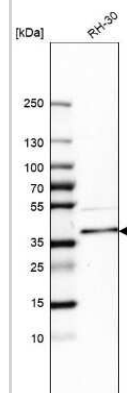
Immunohistochemistry-Paraffin: PDLIM4 Antibody [NBP1-80833] - Staining of human small intestine shows weak to moderate cytoplasmic positivity in glandular cells.



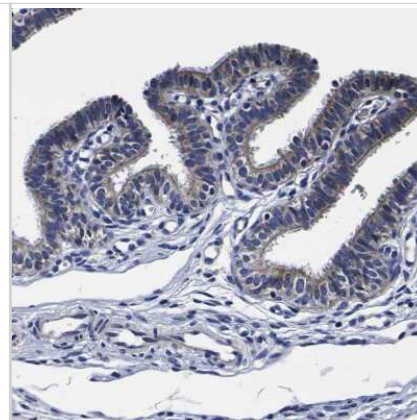
Western Blot: PDLIM4 Antibody [NBP1-80833] - Lane 1: NIH-3T3 cell lysate (Mouse embryonic fibroblast cells). Lane 2: NBT-II cell lysate (Rat Wistar bladder tumor cells).



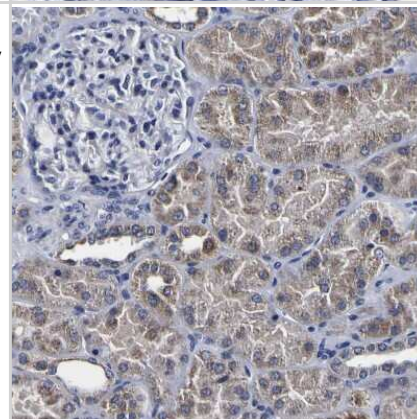
Western Blot: PDLIM4 Antibody [NBP1-80833] - Analysis in human cell line RH-30.



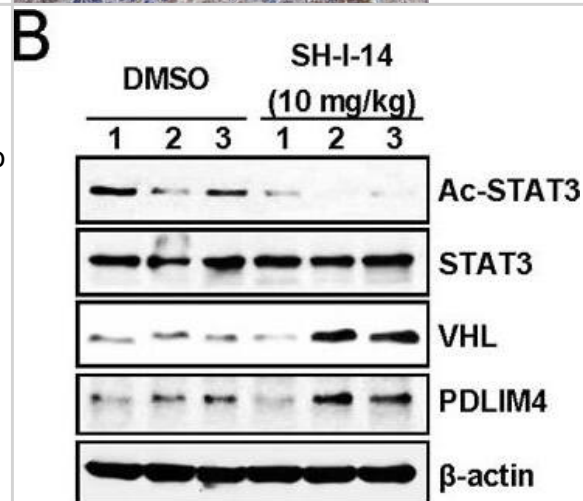
Immunohistochemistry-Paraffin: PDLIM4 Antibody [NBP1-80833] - Staining of human Fallopian tube shows weak to moderate membranous and cytoplasmic positivity in glandular cells.



Immunohistochemistry-Paraffin: PDLIM4 Antibody [NBP1-80833] - Staining of human kidney shows weak to moderate cytoplasmic positivity in cells in tubules.



Western Blot: PDLIM4 Antibody [NBP1-80833] - SH-I-14 reduces the in vivo growth of tumors in xenograft mice bearing tumors of MDA-MB-231 cells. SH-I-14 (10 mg/kg) or DMSO was injected into peritoneal cavity of mouse with MDA-MB-231 tumors three times per week from 8-days after tumor cell injection. The control mice were euthanized earlier due to large tumor size. Tumor volumes were measured as described in Materials & Methods. Data are shown as mean \pm SD. **P < 0.01. B. SH-I-14 reduces acetyl-STAT3 & induces the expression of VHL & PDLIM4 protein in vivo. The MDA-MB-231 xenograft mice (3 mice per group) were administered with 10 mg/kg of SH-I-14 daily for 5 days & lysates from each tumor were subjected to western blot analysis as indicated. β -actin was used as a loading control. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/29137356>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Xiao Q, Kang Z, Liu C et al. Panax notoginseng Saponins Attenuate Cerebral Ischemia-Reperfusion Injury via Mitophagy-Induced Inhibition of NLRP3 Inflammasome in Rats *Frontiers in Bioscience-Landmark* 2022-11-03 [PMID: 36472098] (WB, Rat)

Details:
Dilution used 1:500

Kang HJ, Yi YW, Hou SJ et al. Disruption of STAT3-DNMT1 interaction by SH-I-14 induces re-expression of tumor suppressor genes and inhibits growth of triple-negative breast tumor *Oncotarget*. 2017-10-13 [PMID: 29137356] (WB, Human)

de Tayrac M, Saikali S, Aubry M et al. Prognostic Significance of EDN/RB, HJURP, p60/CAF-1 and PDLI4, Four New Markers in High-Grade Gliomas. *PLoS One* 2013-01-01 [PMID: 24039914]

Stadler C, Rexhepaj E, Singan VR et al. Immunofluorescence and fluorescent-protein tagging show high correlation for protein localization in mammalian cells. *Nat Methods* 2013-04-01 [PMID: 23435261]



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

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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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