

Product Datasheet

PDLIM7 Antibody - BSA Free NBP1-84841

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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NBP1-84841

PDLIM7 Antibody - BSA Free

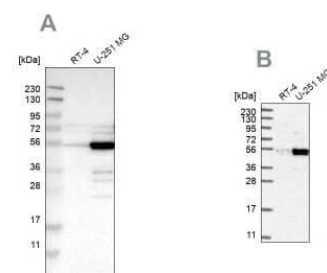
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium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

Product Description	
Host	Rabbit
Gene ID	9260
Gene Symbol	PDLIM7
Species	Human
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: HLTGTEFMQDPDEEHLKSSQVPRTEAPAPASSTPQEPWPGPTAPSPTSRRP WAVDPAFAERYAPDKTSTVLTR

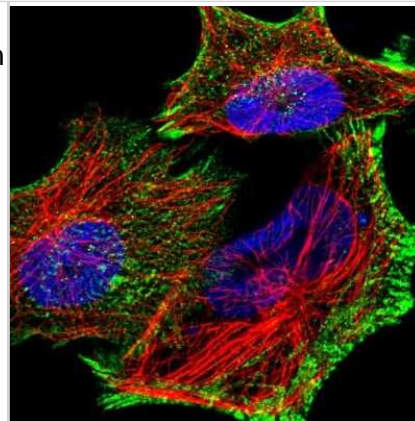
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:50 - 1:200, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:50-1:200
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

Images

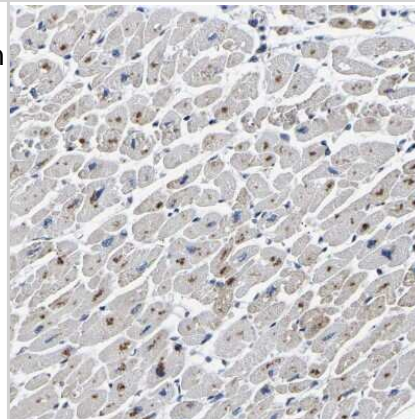
Western Blot: PDLIM7 Antibody [NBP1-84841] - Analysis using Anti-PDLIM7 antibody NBP1-84841 (A) shows similar pattern to independent antibody NBP2-58734 (B).



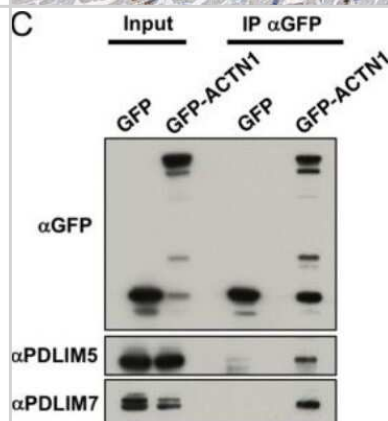
Immunocytochemistry/Immunofluorescence: PDLIM7 Antibody [NBP1-84841] - Staining of human cell line U-251 MG shows localization to actin filaments and focal adhesion sites. Antibody staining is shown in green.



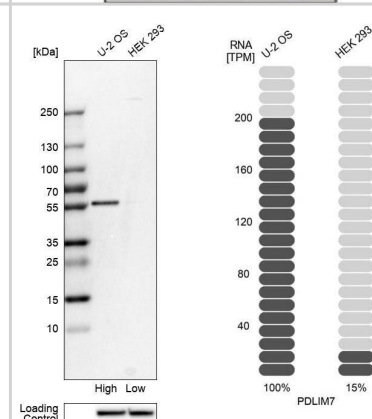
Immunohistochemistry-Paraffin: PDLIM7 Antibody [NBP1-84841] - Staining of human heart muscle shows moderate cytoplasmic positivity in myocytes.



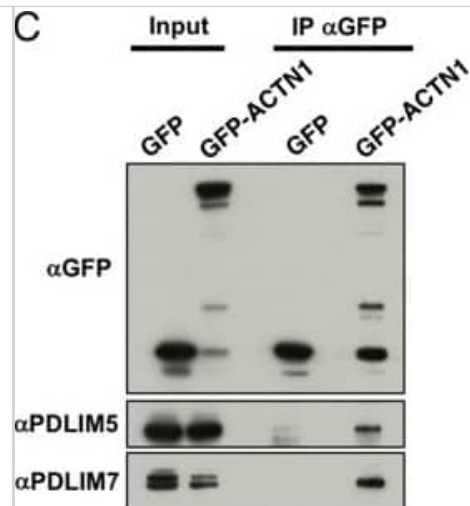
PDLIM7-Antibody-Western-Blot-NBP1-84841-img0012.jpg



Analysis in human cell lines U2OS and HEK293 using Anti-PDLIM7 antibody. Corresponding PDLIM7 RNA-seq data are presented for the same cell lines. Loading control: Anti-HSP90B1.



PDLIM5/7 proteins localize in the cytoplasm in dense cells but to basal stress fibers in sparse cells and bind directly to the stress fiber component α -actinin 1. (A) PDLIM5 localizes to the cytoplasm in dense cells but translocates, in part, to F-actin stress fibers and adherens junctions in sparsely plated cells. (B) PDLIM7 localizes to the cytoplasm in dense cells but translocates in part to F-actin stress fibers and adherens junctions in sparsely plated cells. (C) Co-immunoprecipitation of PDLIM5/7 proteins with GFP-tagged α -actinin 1 from human Caco2 cells. Results are representative of n=3 biological replicates. (D) Schematic diagram of YAP recruitment via the Enigma PDLIM5/7 proteins to integrin–Src signaling complexes to sense mechanical forces basally. Scale bar: 20 μ m (A,B). Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/30404826>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Healy MD, Sacharz J, McNally KE et al. Proteomic identification and structural basis for the interaction between sorting nexin SNX17 and PDLIM family proteins Structure (London, England : 1993) 2022-10-18 [PMID: 36302387] (ICC/IF, Human)

Elbediwy A, Vanyai H, Diaz-de-la-Loza MD et al. Enigma proteins regulate YAP mechanotransduction J. Cell. Sci. 2018-11-22 [PMID: 30404826] (WB, Human)

Li A, Ponten F, dos Remedios CG. The interactome of LIM domain proteins: the contributions of LIM domain proteins to heart failure and heart development. Proteomics 2012-01-01 [PMID: 22253135]



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Products Related to NBP1-84841

NBP1-84841PEP	PDLIM7 Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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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