

Product Datasheet

Podoplanin Antibody (LF3/B7/D5B27) - Azide and BSA Free NB110-96423

Unit Size: 0.1 mg

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

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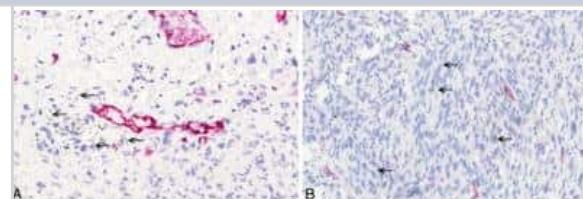
NB110-96423

Podoplanin Antibody (LF3/B7/D5B27) - Azide and BSA Free

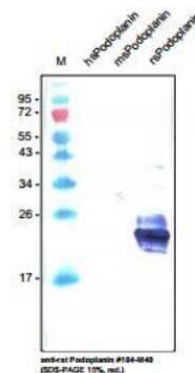
Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	LF3/B7/D5B27
Preservative	No Preservative
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS
Product Description	
Host	Mouse
Gene ID	10630
Gene Symbol	PDPN
Species	Rat
Marker	Lymphatic Endothelium Marker
Immunogen	Membrane protein fraction of isolated rat glomeruli
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1-2 ug/ml, Immunohistochemistry 6-30 ug/ml, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 6-30 ug/ml

Images

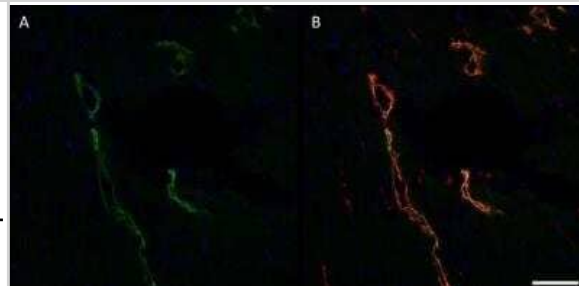
Immunohistochemistry-Paraffin: Podoplanin Antibody (LF3/B7/D5B27) [NB110-96423] - Non-neoplastic histopathological findings in the abdominal cavity. A: High-power view of anti-podoplanin immunohistochemistry showing single MWCNT A (high dose) nanotubes in the tissue (arrows). B: High-power view of anti-podoplanin immunohistochemistry showing single asbestos fibers in the tissue (arrows). Image collected and cropped by CiteAb from the following publication (<https://particleandfibretoxicology.biomedcentral.com/articles/10.1186/s12989-014-0059-z>), licensed under a CC-BY license.



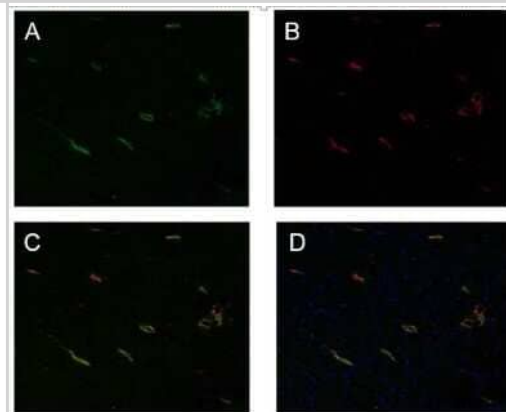
Western Blot: Podoplanin Antibody (LF3/B7/D5B27) [NB110-96423] - analysis with recombinant human, mouse and rat soluble Podoplanin. There is no cross reaction with human and mouse Podoplanin.



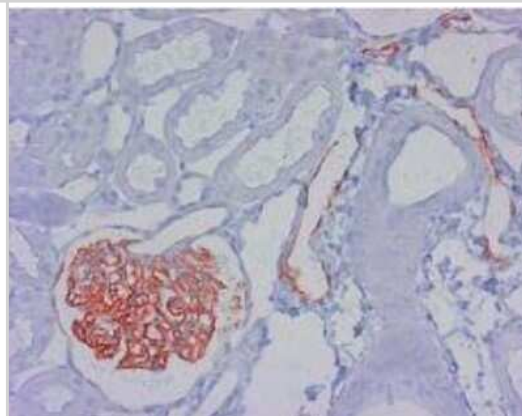
Immunohistochemistry: Podoplanin Antibody (LF3/B7/D5B27) [NB110-96423] - Rat cardiac lymphatic microvessels, labeled with a monoclonal antibody against rat Podoplanin (green) [A] and a polyclonal antibody against mouse LYVE-1 (red) [overlay, B]. Image was obtained at 20x magnification on a Zeiss fluorescence microscope. Scale bar = 50 μ m. The used protocol in short was: 1. Blockage of nonspecific binding; 2. Incubation with primary abs : anti-mouse Lyve1 (1:1000) and mouse anti-Podoplanin (1:400) for 60 min at RT; 3. Incubation with secondary abs: Donkey anti-rabbit Cy3 and Donkey anti-mouse FITC, 30 min at RT; 4. Mounting in DAPI-containing medium for cell nuclei labeling.



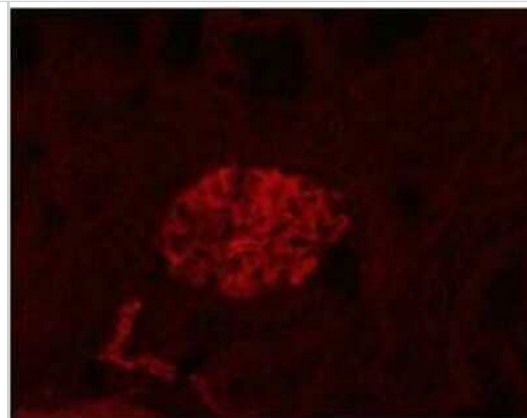
Immunohistochemistry: Podoplanin Antibody (LF3/B7/D5B27) [NB110-96423] - Figure: Rat cardiac lymphatic microvessels, labeled with antibodies against rat Podoplanin (A, green) and mouse LYVE-1 (B, red). Nuclear stain in blue. Double staining with anti-mouse LYVE-1 and anti-rat Podoplanin revealed a nice co-expression of both proteins in lymphatic endothelial cells. Note: The anti-mouse Lyve-1 polyclonal antibody shows a strong cross reaction with rat Lyve-1 protein.



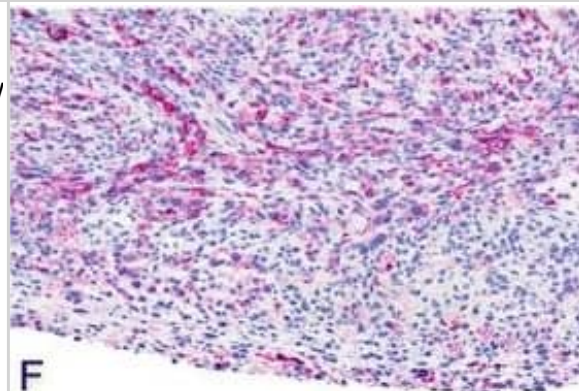
Immunohistochemistry-Paraffin: Podoplanin Antibody (LF3/B7/D5B27) [NB110-96423] - Staining of lymphatic endothelial cells and podocytes in normal rat renal corpuscle.



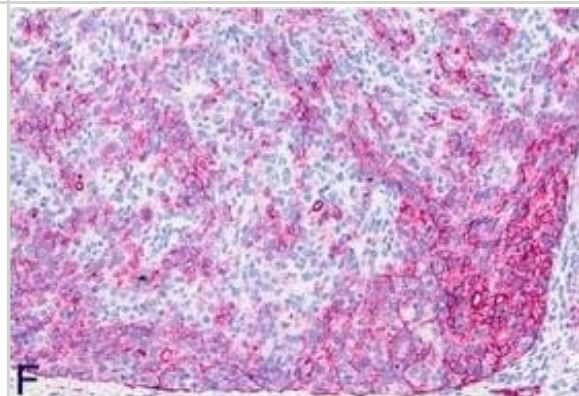
Immunohistochemistry: Podoplanin Antibody (LF3/B7/D5B27) [NB110-96423] - staining of lymphatic endothelial cells and podocytes in normal rat renal corpusle.



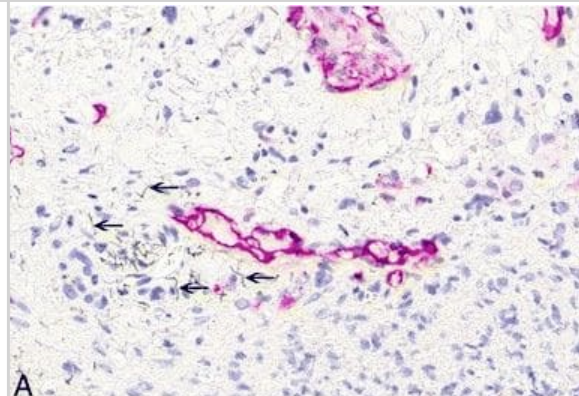
Immunohistochemistry-Paraffin: Podoplanin Antibody (LF3/B7/D5B27) - Azide and BSA Free [NB110-96423] - Sarcomatoid-type malignant mesothelioma observed in the MWCNT B high-dose group. A: H & E, low magnification of tumor tissue invading the diaphragm (20×). B & C: H & E, high-power view (40×). D: High-power view of anti-vimentin immunohistochemistry showing a strongly positive result (40×). E: High-power view of anti-pan-cytokeratin immunohistochemistry showing several positive cells (40×). F: High-power view of anti-podoplanin immunohistochemistry revealing positively stained cytoplasm of many cells (40×). Image collected & cropped by CiteAb from the following publication (<http://particleandfibretotoxicology.biomedcentral.com/articles/10.1186/s12989-014-0059-z>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Immunohistochemistry-Paraffin: Podoplanin Antibody (LF3/B7/D5B27) - Azide and BSA Free [NB110-96423] - Biphasic-type malignant mesothelioma observed in the MWCNT D low-dose group. A: H & E, low magnification of tumor tissue found on the surface of the omentum (20×). B & C: H & E, high-power view (40×). D: High-power view of anti-vimentin immunohistochemistry showing a strongly positive result (40×). E: High-power view of anti-pan-cytokeratin immunohistochemistry showing positive staining of the majority of cells (40×). F: High-power view of anti-podoplanin immunohistochemistry revealing positively stained cytoplasm of many cells (40×). Image collected & cropped by CiteAb from the following publication (<http://particleandfibretotoxicology.biomedcentral.com/articles/10.1186/s12989-014-0059-z>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

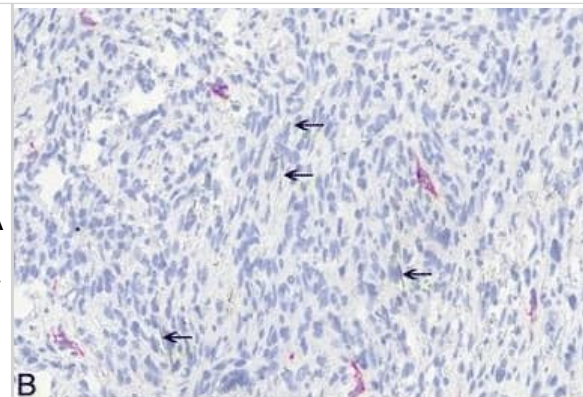


Immunohistochemistry-Paraffin: Podoplanin Antibody (LF3/B7/D5B27) - Azide and BSA Free [NB110-96423] - Non-neoplastic histopathological findings in the abdominal cavity. A: High-power view of anti-podoplanin immunohistochemistry showing single MWCNT A (high dose) nanotubes in the tissue (arrows). B: High-power view of anti-podoplanin immunohistochemistry showing single asbestos fibers in the tissue (arrows). C: H & E, high-power view of granuloma induced by MWCNT A (low dose) nanotubes including single nanotube (arrow, 25×). D: H & E, high-power view of granuloma induced by asbestos including single fiber (arrow, 40×). Image collected & cropped by CiteAb from the following publication (<http://particleandfibretotoxicology.biomedcentral.com/articles/10.1186/s12989-014-0059-z>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



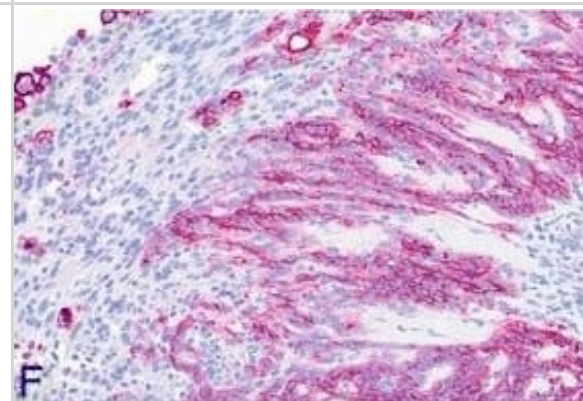
Western Blot: Podoplanin Antibody (LF3/B7/D5B27) - Azide and BSA Free [NB110-96423] - Non-neoplastic histopathological findings in the abdominal cavity. A: High-power view of anti-podoplanin immunohistochemistry showing single MWCNT A (high dose) nanotubes in the tissue (arrows). B: High-power view of anti-podoplanin immunohistochemistry showing single asbestos fibers in the tissue (arrows). C: H & E, high-power view of granuloma induced by MWCNT A (low dose) nanotubes including single nanotube (arrow, 25 \times). D: H & E, high-power view of granuloma induced by asbestos including single fiber (arrow, 40 \times). Image collected & cropped by CiteAb from the following publication

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Immunohistochemistry-Paraffin: Podoplanin Antibody (LF3/B7/D5B27) - Azide and BSA Free [NB110-96423] - Biphasic-type malignant mesothelioma observed in the amosite asbestos group. A: H & E, low magnification of tumor tissue found on the liver surface (10 \times). B: H & E, higher magnification (20 \times). C: H & E, high-power view (40 \times). D: High-power view of anti-vimentin immunohistochemistry showing a strongly positive result (40 \times). E: High-power view of anti-pan-cytokeratin immunohistochemistry showing positive staining of many cells (40 \times). F: High-power view of anti-podoplanin immunohistochemistry revealing positivity in distinct parts of the tumor. Image collected & cropped by CiteAb from the following publication

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Publications

Matsumoto D, Toba H, Kenzaki K et al. Lung regeneration with rat fetal lung implantation and promotion of alveolar stem cell differentiation by corticosteroids *Regen Ther* 2023-09-14 [PMID: 37744680]

Lam CH, Janson C, Romanova L, Hansen EA Lymphatic cells do not functionally integrate into 3D organotypic brain slice cultures, but aggregate around penetrating blood vessels *Experimental brain research* 2022-08-03 [PMID: 35920898] (Rat)

SilhavY J, Mlejnek P, SimAkova M et al. Sodium Accumulation and Blood Capillary Rarefaction in the Skin Predispose Spontaneously Hypertensive Rats to Salt Sensitive Hypertension *Biomedicines* 2022-02-04 [PMID: 35203585] (IHC-P, Rat)

Hayes K, Warner E, Bollinger C et al. Repository corticotropin injection versus corticosteroids for protection against renal damage in a focal segmental glomerulosclerosis rodent model *BMC Nephrol* 2020-06-15 [PMID: 32539845] (IF/IHC, Rat)

Metzger CE, Narayanan SA, Zawieja DC, Bloomfield SM. A moderately elevated soy protein diet mitigates inflammatory changes in gut and in bone turnover during chronic TNBS-induced inflammatory bowel disease. *Appl Physiol Nutr Metab.* 2018-10-23 [PMID: 30352170] (IHC-P, Rat)

Narayanan Sa, Metzger CE, Bloomfield Sa, Zawieja DC. Inflammation-induced lymphatic architecture and bone turnover changes are ameliorated by irisin treatment in chronic inflammatory bowel disease. *FASEB J.* 2018-03-29 [PMID: 29596023] (IHC-P)

Rittinghausen S, Hackbarth A, Creutzenberg O et al. The carcinogenic effect of various multi-walled carbon nanotubes (MWCnTs) after intraperitoneal injection in rats. *Part Fibre Toxicol.* 2014-11-20 [PMID: 25410479] (IHC-P, Rat)

Romanova L, Hansen E, Lam CH. Generation and preliminary characterization of immortalized cell line derived from rat lymphatic capillaries. *Microcirculation* 2014-03-24 [PMID: 24661565] (WB, ICC/IF, Rat)

Details:
Rat lymphatic immortalized cell line SV40-LEC, Fig 2. GAPDH expression was used as a loading control.





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Products Related to NB110-96423

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)
NB110-96423UV	Podoplanin Antibody (LF3/B7/D5B27) [DyLight 350]

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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