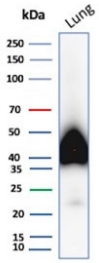
PA2.26 Antigen Antibody / Podoplanin Glycoprotein Marker [clone PDPN/8950R] (V4702)

Catalog No.	Formulation	Size
V4702-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4702-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4702SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

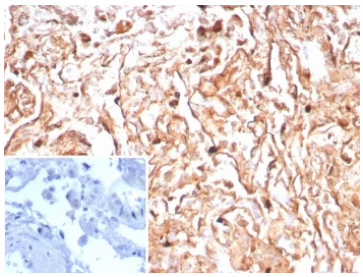
Recombinant RABBIT MONOCLONAL

Bulk quote request

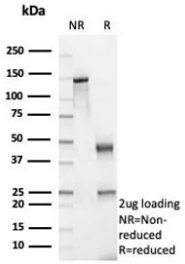
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	PDPN/8950R
Purity	Protein A/G affinity
UniProt	Q86YL7
Localization	Cell surface
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT Western blot: 2-4ug/ml
Limitations	This PA2.26 Antigen Antibody / Podoplanin Glycoprotein Marker is available for research use only.



PA2.26 Antigen Antibody PDPN/8950R in Human Lung WB. Western blot testing of human lung tissue lysate with PA2.26 Antigen Antibody / Podoplanin Glycoprotein Marker, clone PDPN/8950R, at 2-4 ug/ml. The predicted molecular weight of podoplanin is approximately 25 kDa, although the protein may be observed at higher molecular weights due to glycosylation. This PA2.26 Antigen Antibody demonstrates podoplanin detection in human lung tissue.



PA2.26 Antigen Antibody PDPN/8950R in Human Tonsil IHC. Immunohistochemistry staining of FFPE human tonsil tissue with PA2.26 Antigen Antibody / Podoplanin Glycoprotein Marker, clone PDPN/8950R, at 1-2 ug/ml for 30 min at RT. The inset shows PBS used in place of primary antibody as a secondary antibody negative control. HIER was performed by boiling tissue sections in 10 mM Tris with 1 mM EDTA, pH 9, for 20 min followed by cooling before testing. The observed staining demonstrates podoplanin expression in human tonsil tissue.



Purified PA2.26 Antigen Antibody PDPN/8950R SDS-PAGE. Gel run analysis of purified, BSA-free PA2.26 Antigen Antibody / Podoplanin Glycoprotein Marker, clone PDPN/8950R. Analysis of the purified recombinant rabbit monoclonal antibody provides confirmation of antibody integrity and purity.

Description

PA2.26 Antigen Antibody / Podoplanin Glycoprotein Marker detects podoplanin (PDPN), a heavily glycosylated cell-surface protein also known as PA2.26 antigen, Gp36 and T1 alpha. Podoplanin is a mucin-type transmembrane glycoprotein expressed by lymphatic endothelial cells and several other specialized cell populations. Extensive post-translational glycosylation contributes to an observed molecular weight of approximately 38-43 kDa despite the smaller predicted molecular weight of the polypeptide.

Podoplanin is a type I transmembrane protein with a heavily O-glycosylated extracellular region and a short cytoplasmic tail. Although PDPN lacks intrinsic enzymatic activity, interactions involving its extracellular and intracellular domains can influence cell morphology, adhesion and migration. Podoplanin also binds the platelet receptor CLEC-2, an interaction important to platelet activation and the proper separation of developing blood and lymphatic vascular systems.

PA2.26 antigen is strongly associated with lymphatic endothelial biology. Podoplanin expression can be used to investigate lymphatic vessels, lymphatic endothelial differentiation and lymphangiogenesis. The protein is also expressed by stromal cells in peripheral lymphoid tissues and by thymic epithelial cells. Its distribution among lymphatic and specialized stromal cell populations makes PDPN relevant to studies of vascular development, tissue organization and cellular differentiation.

Podoplanin expression has also been investigated extensively in disease and cancer biology. PDPN is found in lymphangiomas, Kaposi sarcomas and subsets of angiosarcoma exhibiting lymphatic differentiation. It is additionally well established in studies of epithelioid mesothelioma and mesothelial differentiation. These broader associations connect the normal lymphatic and stromal biology of PA2.26 antigen with research into pathological tissue remodeling, tumor development and altered cellular phenotypes.

Clone PDPN/8950R is a recombinant rabbit monoclonal antibody generated against a recombinant fragment of human PDPN protein. It has been evaluated by Western blot and immunohistochemistry in human samples, including lung tissue lysate and FFPE tonsil tissue. Recombinant production provides a defined antibody sequence and supports consistent performance across manufacturing lots. NSJ Bioreagents supplies antibodies for lymphatic, vascular and cell biology research. A PA2.26 Antigen Antibody can be used to investigate podoplanin expression, lymphatic endothelial biology, cell-surface glycoproteins and lymphangiogenesis.

For broader research on podoplanin expression and lymphatic endothelial biology, including a protein microarray validated reagent, see our Podoplanin Antibody / Lymphatic Endothelial Cell Marker page.

Application Notes

Optimal dilution of the PA2.26 Antigen Antibody / Podoplanin Glycoprotein Marker should be determined by the researcher.

Immunogen

A recombinant fragment of human PDPN protein was used as the immunogen for the Podoplanin antibody.

Storage

Aliquot the Podoplanin antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

PA2.26 Antigen antibody, Podoplanin antibody, PDPN antibody, Gp36 antibody, Glycoprotein 36 antibody, T1 Alpha antibody

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