

For Research Use Only

# Podoplanin Monoclonal antibody

Catalog Number: 67432-1-Ig 4 Publications



## Basic Information

<b>Catalog Number:</b> 67432-1-Ig	<b>GenBank Accession Number:</b> BC022812	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1900 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 10630	<b>CloneNo.:</b> 1D9F3
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q86YL7	<b>Recommended Dilutions:</b> IHC 1:2000-1:8000
<b>Isotype:</b> IgG2a	<b>Full Name:</b> podoplanin	
<b>Immunogen Catalog Number:</b> AG17691	<b>Calculated MW:</b> 238 aa, 25 kDa	

## Applications

<b>Tested Applications:</b> IHC, ELISA	<b>Positive Controls:</b> IHC : human tonsillitis tissue, human appendicitis tissue, human colon tissue
<b>Cited Applications:</b> WB, IF, IHC	
<b>Species Specificity:</b> Human	
<b>Cited Species:</b> human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

Podoplanin was identified as a glycoprotein found in the cell membranes of glomerular epithelial cells (podocyte) (PMID: 9327748). It is a lymphatic marker because the expression of podoplanin has been detected in lymphatic but not blood vascular endothelium, and is useful as the marker of tumor-associated Lymphangiogenesis. Podoplanin has a function in developing testis, most likely at the level of cell-cell interactions among pre-meiotic germ cells and immature Sertoli cells. It may be involved in cell migration and/or actin cytoskeleton organization. When expressed in keratinocytes, PDPN induces changes in cell morphology with transfected cells showing an elongated shape, numerous membrane protrusions, major reorganization of the actin cytoskeleton, increased motility and decreased cell adhesion. It is required for normal lung cell proliferation and alveolus formation at birth. PDPN induces platelet aggregation. It does not have any effect on folic acid or amino acid transport and does not function as a water channel or as a regulator of aquaporin-type water channels. The antibody is specific to Podoplanin.

## Notable Publications

Author	Pubmed ID	Journal	Application
Zhaoting Yang	33129761	Am J Pathol	IHC
Qiqiao Du	35597782	Cell Death Dis	IHC
Mengwan Wu	38470096	CNS Neurosci Ther	IHC,IF

## Storage

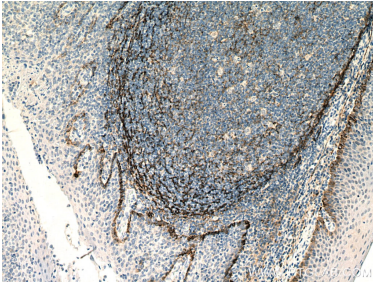
**Storage:**  
Store at -20°C.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

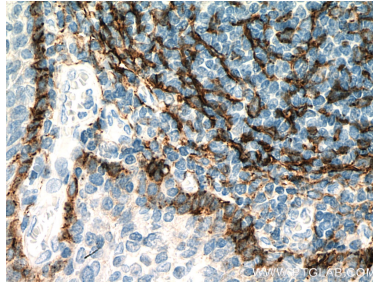
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
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## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 67432-1-Ig (Podoplanin antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 67432-1-Ig (Podoplanin antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).