

For Research Use Only

# Podoplanin Monoclonal antibody, PBS Only



Catalog Number: 67432-1-PBS

## Basic Information

<b>Catalog Number:</b> 67432-1-PBS	<b>GenBank Accession Number:</b> BC022812	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 10630	<b>CloneNo.:</b> 1D9F3
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q86YL7	
<b>Isotype:</b> IgG2a	<b>Full Name:</b> podoplanin	
<b>Immunogen Catalog Number:</b> AG17691	<b>Calculated MW:</b> 238 aa, 25 kDa	

## Applications

**Tested Applications:**  
IHC, ELISA

**Species Specificity:**  
Human

## 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.

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.

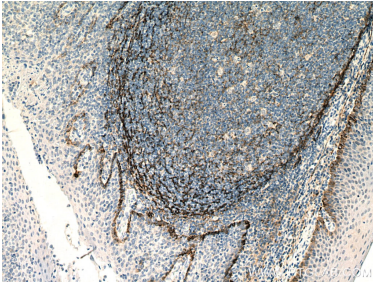
**Storage Buffer:**  
PBS only

Aliquoting is unnecessary for -20°C storage

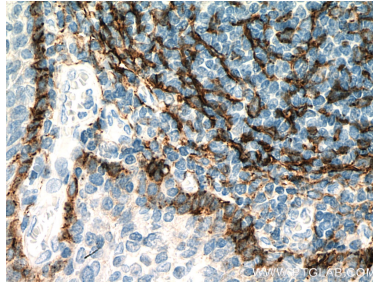
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)      E: proteintech@ptglab.com  
W: ptglab.com

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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). This data was developed using the same antibody clone with 67432-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 67432-1-PBS in a different storage buffer formulation.