

Podoplanin Monoclonal antibody

Catalog Number: 67432-1-Ig **4 Publications**

Basic Information

Catalog Number: 67432-1-Ig	GenBank Accession Number: BC022812	Purification Method: Protein A purification
Size: 150ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 10630	CloneNo.: 1D9F3
Source: Mouse	UNIPROT ID: Q86YL7	Recommended Dilutions: IHC 1:2000-1:8000 IF-P 1:200-1:800
Isotype: IgG2a	Full Name: podoplanin	
Immunogen Catalog Number: AG17691	Calculated MW: 238 aa, 25 kDa	

Applications

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

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

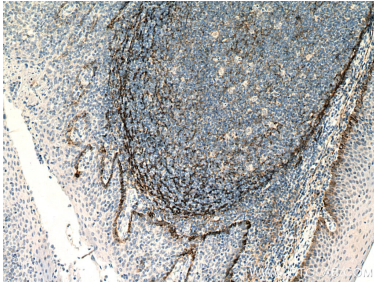
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

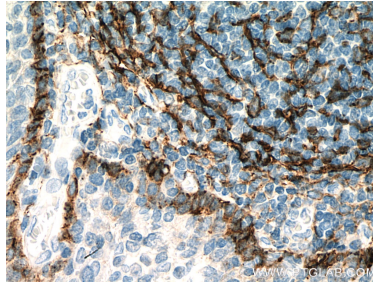
For technical support and original validation data for this product please contact:
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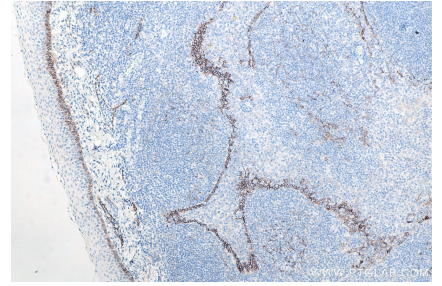
Selected Validation Data



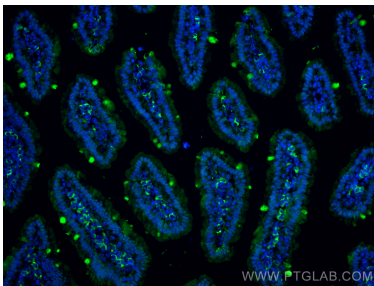
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 67432-1-Ig (Podoplanin antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 67432-1-Ig (Podoplanin antibody) at dilution of 1:8000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse small intestine tissue using Podoplanin antibody (67432-1-Ig, Clone: 1D9F3) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).