

For Research Use Only

CoraLite®594-conjugated Podoplanin Monoclonal antibody

Catalog Number:CL594-67432



Basic Information

Catalog Number: CL594-67432	GenBank Accession Number: BC022812	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 10630	CloneNo.: 1D9F3
Source: Mouse	UNIPROT ID: Q86YL7	Excitation/Emission maxima wavelengths: 588 nm / 604 nm
Isotype: IgG2a	Full Name: podoplanin	
Immunogen Catalog Number: AG17691	Calculated MW: 238 aa, 25 kDa	

Applications

Tested Applications:
FC
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.

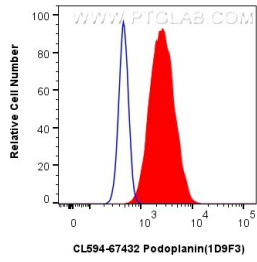
Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
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

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1x10⁶ U2OS cells were surface stained with 0.4 ug Coralite®594 Podoplanin Monoclonal Antibody (CL594-67432, Clone:1D9F3)(red), or 0.4 ug Coralite®594 Mouse IgG2a isotype control (11A1B2) (CL594-66360-2, Clone: 11A1B2) (blue). Cells were not fixed.