

For Research Use Only

CoraLite® Plus 647-conjugated Podoplanin Polyclonal antibody



Catalog Number: CL647-11629

Basic Information

Catalog Number: CL647-11629	GenBank Accession Number: BC022812	Purification Method: Antigen affinity purification
Size: 1000 µg/ml	GeneID (NCBI): 10630	Excitation/Emission maxima wavelengths: 654 nm / 674 nm
Source: Rabbit	UNIPROT ID: Q86YL7	
Isotype: IgG	Full Name: podoplanin	
Immunogen Catalog Number: AG2201	Calculated MW: 17 kDa, 25 kDa	
	Observed MW: 43 kDa	

Applications

Tested Applications:
FC (Intra)

Species Specificity:
human

Background Information

Podoplanin was identified as a 43 kDa 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:

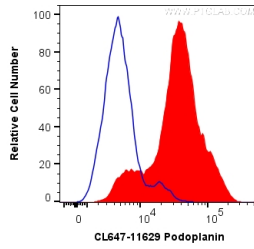
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1X10⁶ HEK-293 cells were intracellularly stained with 0.2 ug CoraLite® Plus 647 Anti-Human Podoplanin (CL647-11629) (red), or 0.2 ug Control Antibody (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).