

For Research Use Only

CoraLite®594-conjugated Podoplanin Monoclonal antibody

Catalog Number: CL594-67432



Basic Information

Catalog Number:

CL594-67432

Size:

100ul , Concentration: 1000 ug/ml by Nanodrop;

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG17691

GenBank Accession Number:

BC022812

GeneID (NCBI):

10630

UNIPROT ID:

Q86YL7

Full Name:

podoplanin

Calculated MW:

238 aa, 25 kDa

Purification Method:

Protein A purification

CloneNo.:

1D9F3

Excitation/Emission maxima wavelengths:

588 nm / 604 nm

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

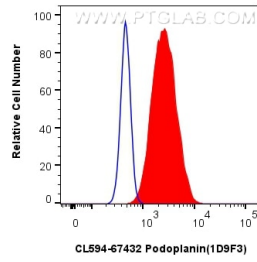
For technical support and original validation data for this product please contact:

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E: proteintech@ptglab.com
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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 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.