

Podoplanin Recombinant monoclonal antibody, PBS Only (Capture)

Catalog Number: 86750-1-PBS

Basic Information

Catalog Number: 86750-1-PBS	GenBank Accession Number: BC014668	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 10630	CloneNo.: 251406D4
Source: Rabbit	UNIPROT ID: Q86YL7-1	
Isotype: IgG	Full Name: podoplanin	
Immunogen Catalog Number: EG5024		

Applications

Tested Applications:
Sandwich ELISA, Indirect ELISA

Species Specificity:
human

Product Information

86750-1-PBS targets Podoplanin as part of a matched antibody pair:

MP02738-1: 86750-1-PBS capture and 86750-5-PBS detection (validated in Sandwich ELISA)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

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 a 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.

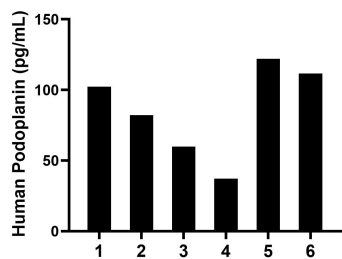
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

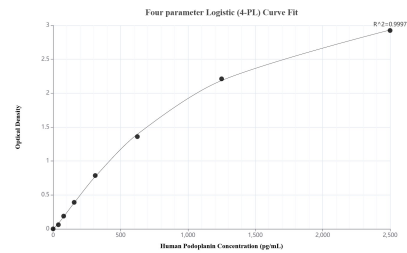
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

Selected Validation Data



Plasma of eight individual healthy human donors was measured. The Podoplanin concentration of detected samples was determined to be 85.9 pg/mL with a range of 37.1-122.1 pg/mL.



Sandwich ELISA standard curve of MP02738-1, Human Podoplanin Recombinant Matched Antibody Pair - PBS only. 86750-1-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Eg5024. 86750-5-PBS was HRP conjugated as the detection antibody. Range: 39.1-2500 pg/mL.