



Podoplanin Rabbit mAb

Catalog No	YP-rAb-17652
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,ELISA
Gene Name	PDPN GP36 PSEC0003 PSEC0025
Protein Name	Aggrus Glycoprotein 36 Gp36 PA2.26 antigen T1-alpha T1A
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:1000; WB 1:1000-1:5000; IF 1:200-1:1000; ELISA 1:5000-1:20000; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15 ° C to -25 ° C/1 year(Do not lower than -25 ° C)
Synonyms	Podoplanin;Aggrus Glycoprotein 36 Gp36 PA2.26 antigen T1-alpha T1A;Podoplanin ; Aggrus ; Glycoprotein 36 ; Gp36 ; PA2.26 antigen ; T1-alpha ; T1A ;PDPN GP36 PSEC0003 PSEC0025
Observed Band	36kD
Calculated Molecular Weight	17kD
Cell Pathway	Membrane, Cytoplasm
Tissue Specificity	Tonsil/ Appendix
Function	Caution:The sequence shown here is derived from an Ensembl automatic analysis pipeline and should be considered as preliminary data.,Function:May be involved in cell migration and/or actin cytoskeleton organization. When expressed in keratinocytes, 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. Required for normal lung cell proliferation and alveolus formation at birth. Induces platelet aggregation. Does not have any effect on folic acid or amino acid transport. Does not function as a water channel or as a regulator of aquaporin-type water channels.,PTM:Extensively O-glycosylated. Contains sialic acid residues. O-glycosylation is necessary for platelet aggregation activity.,PTM:The N-terminus is blocked.,similarity:Belongs to the podoplanin family.,subcellular location:Localized to actin-rich microvilli and plasma



membrane projections such as filopodia, lamellipodia and ruffles.,tissue specificity:Highly expressed in placenta, lung, skeletal muscle and brain. Weakly expressed in brain, kidney and liver. In placenta, expressed on the apical plasma membrane of endothelium. In lung, expressed in alveolar epithelium

Up-regulated in colorectal tumors and expressed in 25% of early oral squamous cell carcinomas.,

Background

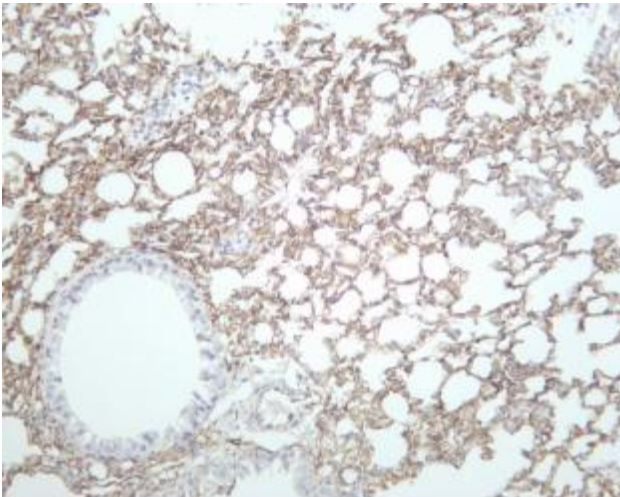
This gene encodes a type-I integral membrane glycoprotein with diverse distribution in human tissues. The physiological function of this protein may be related to its mucin-type character. The homologous protein in other species has been described as a differentiation antigen and influenza-virus receptor. The specific function of this protein has not been determined but it has been proposed as a marker of lung injury. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008],

matters needing attention

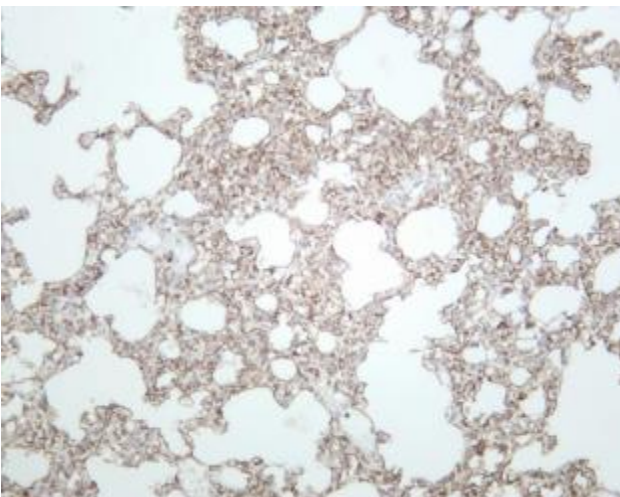
Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

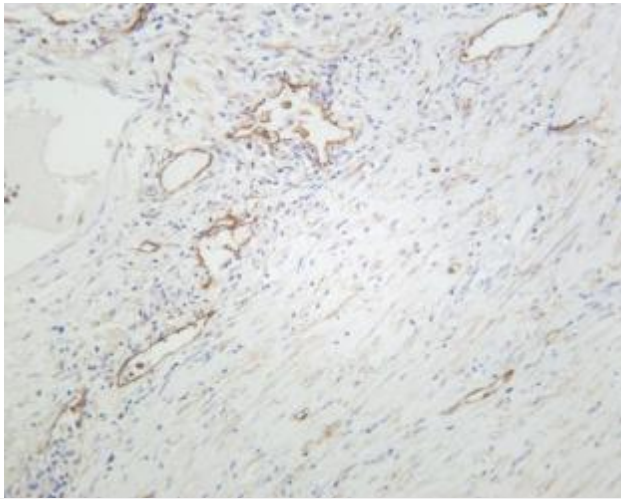


Mouse lung was stained with anti-Podoplanin rabbit antibody

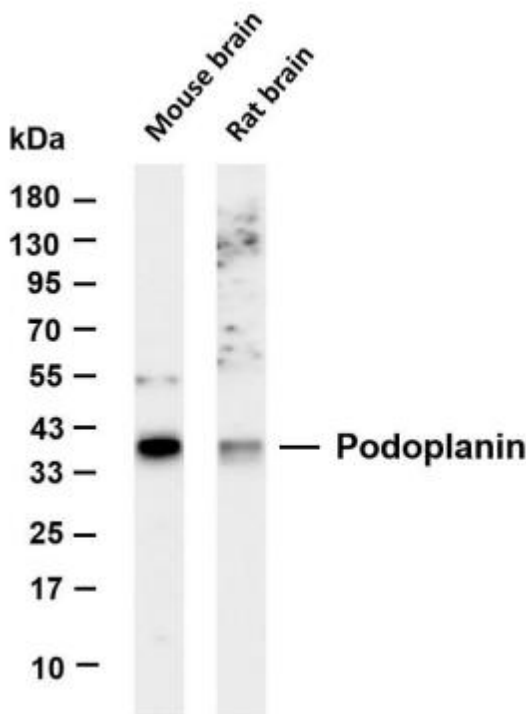


Rat lung was stained with anti-Podoplanin rabbit antibody

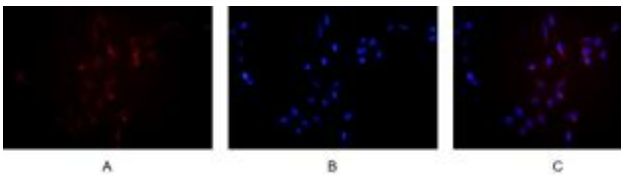




Human lung squamous carcinoma was stained with anti-Podoplanin rabbit antibody



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Podoplanin antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Mouse brain Lane 2: Rat brain Predicted band size: 17kDa Observed band size: 36kDa



Immunofluorescence analysis of HEK293. Picture A: Podoplanin antibody (red). Picture B: DAPI (blue). Picture C: Merge of A+B

