SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-Podoplanin antibody

Catalog Number: SL10673R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Podoplanin
Immunogen:	KLH conjugated synthetic peptide derived from human Podoplanin: 31-130/166
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human, (predicted: Mouse, Rat)
Predicted MW.:	15kDa
Subcellular Location:	The cell membrane
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] **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.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	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. **Subcellular Location:** Membrane; Single-pass type I membrane protein. Cell projection, filopodium membrane; Single-pass type I membrane protein. Cell projection, lamellipodium membrane; Single-pass type I membrane protein. Cell projection, microvillus membrane; Single-pass type I membrane protein. Cell projection, ruffle membrane; Single-pass type I membrane protein. Note=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. **Post-translational modifications:** Extensively O-glycosylated. Contains sialic acid residues. O-glycosylation is necessary for platelet aggregation activity. The N-terminus is blocked. **Similarity:** Belongs to the podoplanin family. **Database links:** **Entrez Gene:** 10630 Human **Entrez Gene:** 14726 Mouse **Entrez Gene:** 54320 Rat **SwissProt:** Q86YL7 Human **SwissProt:** Q62011 Mouse **SwissProt:** Q64294 Rat

[VALIDATION IMAGES]

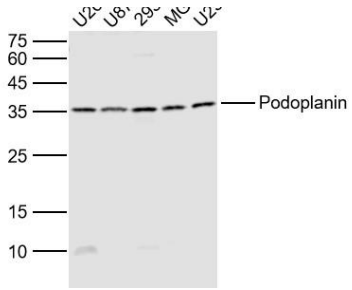


Figure 1. Sample: Lane 1: U2os (Human) Cell Lysate at 30 ug Lane 2: U87MG (Human) Cell Lysate at 30 ug Lane 3: 293T (Human) Cell Lysate at 30 ug Lane 4: MG63 (Human) Cell Lysate at 30 ug Lane 5: U251 (Human) Cell Lysate at 30 ug Primary: Anti-Podoplanin (SL10673R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 15 kD Observed band size: 35 kD

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