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Datasheet for ABIN1097364

Podoplanin Protein (PDPN) (AA 23-131) (His tag)

Overview

Quantity:	50 µg
Target:	Podoplanin (PDPN)
Protein Characteristics:	AA 23-131
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Podoplanin protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Podoplanin/PDPN/Aggrus (C-6His)
Sequence:	ASTGQPEDDT ETTGLEGGVA MPGAEDDVVT PGTSEDRYKS GLTTLVATSV NSVTGIRIED LPTSESTVHA QEQSPSATAS NVATSHSTEK VDGDQT TVE KDGLSTVTLV DHHHHHHH
Characteristics:	Recombinant Human Podoplanin/PDPN produced by transfected human cells is a secreted protein with sequence (Ala23-Thr131) of Human PDPN fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	Podoplanin (PDPN)
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Target Details

Alternative Name:	podoplanin (PDPN Products)
Sub Type:	Fusionprotein
Background:	<p>Podoplanin is a type-1 transmembrane protein that belongs to Podoplanin family. PDPN expressed in various specialized cell types throughout the body. It highly expressed in placenta, lung, skeletal muscle and brain, weakly expressed in brain, kidney and liver. In placenta, PDPN expressed on the apical plasma membrane of endothelium, in lung, expressed in alveolar epithelium. PDPN physiological function is related to its mucin-type character. PDPN 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, and major reorganization of the actin cytoskeleton, increased motility and decreased cell adhesion. It requires for normal lung cell proliferation and alveolus formation at birth and Induces platelet aggregation. Nevertheless, it doesn't have any effect on amino acid transport and the aquaporin-type water channels.</p> <p>Alternative Names: Podoplanin, Aggrus, Glycoprotein 36, Gp36, PA2.26 Antigen, T1-Alpha, T1A, PDPN, GP36</p>
Molecular Weight:	12.16 kDa
UniProt:	Q86YL7
Pathways:	Dicarboxylic Acid Transport

Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH₂O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.

Handling

Reconstituted protein solution can be stored at 4-7°C for 2-7 days.

Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Expiry Date: 3 months