Datasheet for ABIN7534258

Podoplanin Protein (PDPN) (Fc Tag,His tag)

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Overview

Quantity:	100 µg
Target:	Podoplanin (PDPN)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Podoplanin protein is labelled with Fc Tag,His tag.

Product Details

Purpose:	Active Recombinant Human Podoplanin/PDPN Protein
Sequence:	EGASTGQPED DTETTGLEGG VAMPGAEDDV VTPGTSEDRY KSGLTTLVAT SVNSVTGIRI EDLPTSESTV HAQEQSPSAT ASNVATSHST EKVDGDTQTT VEK
Specificity:	Glu97-Lys199
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1 EU/µg of the protein by LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized Human CLEC-2 Protein at 5 µg/mL (100 µL/well) can bind Human Podoplanin with a linear range of 0.98-46 ng/mL.

Target Details

Target:	Podoplanin (PDPN)
Alternative Name:	Podoplanin/PDPN (PDPN Products)
Background:	Description: Podoplanin, also known as glycoprotein 36 (gp36), PA2.26 antigen, T1-alpha (T1A), and aggrus, is a 36 kDa type I transmembrane sialoglycoprotein and member of the Podoplanin family.PDPN is a mucin-type glycoprotein negatively charged by extensive O-glycosylation and a high content of sialic acid, which expresses the adhesive property. It is selectively expressed in lymphatic endothelium as well as lymphangiomas, Kaposi sarcomas, and in a subset of angiosarcomas with probable lymphatic differentiation. PDPN may contribute to form odontoblastic fiber or function as the anchorage to the tooth development and in proliferating epithelial cells of cervical loop and apical bud. The intensity of podoplanin expression is negatively correlated with the expression of CD34 and factor VIII. Podoplanin would be useful as a diagnostic marker for epithelioid hemangioendothelioma in liver tumors. Name: AGGRUS, GP36, GP40, Gp38, HT1A-1, OTS8, PA2.26, T1A, T1A-2, T1A2, TI1A,PDPN, AGGRUS, podoplanin,GP36,GP40,Gp38,HT1A-1,OTS8,PA2.26,T1A,T1A-2,T1A2,TI1A
Gene ID:	10630
UniProt:	Q86YL7-3
Pathways:	Dicarboxylic Acid Transport

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid votex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.
Storage:	-20 °C,-80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.