

Recombinant Human PDPN Protein (Ala23-Pro238), His tagged

Cat. No. PDPN-3917H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant human PDPN (Ala23-Pro238) fused with His tag was expressed in E. coli.

Species Human

Source E.coli

ProteinLength Ala23-Pro238

Description

Podoplanin, also known as PDPN, is 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. Alternatively spliced transcript variants encoding different isoforms have been identified. 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.

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Form	Lyophilized powder/frozen liquid
Molecular Mass	15.58 kDa
Purity	>90% as determined by SDS-PAGE.
Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	Supplied as solution form in PBS, pH 7.5 or lyophilized from PBS, pH 7.5.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	They are shipped out with dry ice/blue ice unless customers require otherwise.
GENE INFORMATION	
Gene Name	PDPN podoplanin [Homo sapiens (human)]
Official Symbol	PDPN
Synonyms	PDPN; podoplanin; aggrus; Gp38; GP40; lung type I cell membrane associated glycoprotein; PA2.26; T1A 2; T1-alpha; hT1alpha-1; hT1alpha-2; PA2.26 antigen; glycoprotein 36; glycoprotein, 36-KD; lung type-I cell membrane-associated glycoprotein (T1A-2); T1A; GP36; OTS8; T1A-2; AGGRUS; HT1A-1;
Gene ID	10630

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mRNA Refseq	NM_001006624
Protein Refseq	NP_001006625
MIM	608863
UniProt ID	Q86YL7

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