Recombinant Human Podoplanin/PDPN Protein

Catalog No.: RP00208

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Sequence Information

Species	Gene ID
Human	10630
Swiss Prot	**Tags**
Q86YL7-3	C-hFc&His

Synonyms

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

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.
Calculated MW	**Observed MW**
37.31 kDa	50-65 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex 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.

Background

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.

Basic Information

Description

Recombinant Human Podoplanin/PDPN Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Glu97-Lys199) of human PDPN/Podoplanin (Accession #NP_006465.3) fused with an Fc, 6×His tag at the C-terminus.

Activity

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.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20℃

Operational Notes

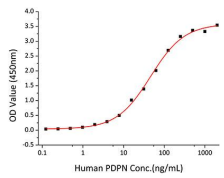
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

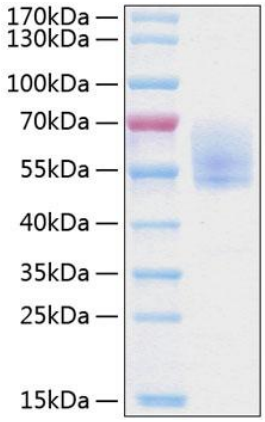
400-999-6126
cn.market@abclonal.com.cn
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Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



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.



Recombinant Human Podoplanin/PDPN Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.