

Podoplanin Active Protein | PDPN active protein

Podoplanin Protein, Mouse, Recombinant (His & hFc Tag)

CATALOG #
AAA258148

HOST
HEK293 Cells

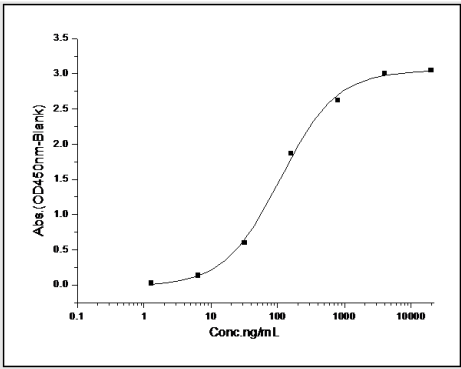
PRODUCT SYNONYMS

Podoplanin; Podoplanin Protein; Mouse; Recombinant (His & hFc Tag); Mouse Podoplanin/PDPN Protein (His & Fc Tag); Gp38 Protein; OTS-8 Protein; RANDOM-2 Protein; T1-alpha Protein; T1a Protein; T1alpha Protein; podoplanin; PDPN active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>97% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Leu14 1
Species	Mouse
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Gly 23
Tag	C-human IgG1-Fc & His
Protein Construction	A DNA sequence encoding the extracellular domain (Met 1-Leu 141) of mouse PDPN (NP_034459.2) precursor was fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	Immobilized mouse PDPN-Fch at 10ug/ml (100uL/well) can bind biotinylated human CLEC1B-His. The EC50 of biotinylated human CLEC1B-His is 0.04-0.08ug/ml.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.

IMAGES



SDS-PAGE

Application Data
Immobilized mouse PDPN-Fch at 10 ug/ml (100 ul/well) can bind biotinylated human CLEC1B-His, The EC50 of biotinylated human CLEC1B-His is 0.04-0.08 ug/ml.

ADDITIONAL INFORMATION

Related Product Information for PDPN active protein	Background: 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 test marker for epithelioid hemangioendothelioma in liver tumors.
References	Kimura, N. et al., 2005, Pathol Int. 55 (2): 83-86. Orda³a+/-ez, N.G., 2006, Adv Anat Pathol. 13 (2): 83-88. Wicki, A. et al., 2007, Br. J. Cancer. 96 (1): 1-5. Fujii,T. et al., 2008, Mod Pathol. 21 (2): 125-130. Sawa,Y. et al., 2008, Acta Histochem Cytochem. 41 (5):121-126. Kaddu, S. et al., 2009, Am J Dermatopathol. 31 (2): 137-139.

NCBI AND UNIPROT INFORMATION

NCBI GI #	113462005
NCBI GeneID	14726
NCBI Accession #	NP_034459.2
NCBI GenBank Nucleotide #	NM_010329.2
UniProt Accession #	Q62011; Q546R8; Q61612; A2A8J3
Molecular Weight	18,233 Da
NCBI Official Full Name	podoplanin
NCBI Official Synonym Full Names	podoplanin
NCBI Official Symbol	Pdpn
NCBI Official Synonym Symbols	T1a; Gp38; OTS-8; T1alpha; RANDAM-2; T1-alpha
NCBI Protein Information	podoplanin; aggrus; PA2.26 antigen; glycoprotein 38; transmembrane glycoprotein E11
UniProt Protein Name	Podoplanin
UniProt Gene Name	Pdpn
UniProt Synonym Gene Names	Gp38; Ots8; Gp38; T1A

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek293-cells-pdpn-active-protein/podoplanin/258148>