

Datasheet for ABIN1589762 Podoplanin Protein (PDPN) (Soluble) (His tag)



Overview

Overview	
Quantity:	5 µg
Target:	Podoplanin (PDPN)
Protein Characteristics:	Soluble
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Podoplanin protein is labelled with His tag.
Product Details	
Purpose:	Podoplanin, soluble
Sequence:	GTIGVNEDDI VTPGTGDGMV PPGIEDKITT TGATGGLNES TGKAPLVPTQ RERGTKPPLE ELSTSATSDH DHREHESTTT VKVVTSHSVD KKTSHPNRDN AGDETQTTDK KDGLPVVTLE HHHHHH
Specificity:	Chromosomal location:4 E1, 4
Characteristics:	Length (aa):126
Purity:	> 95 % by SDS-PAGE
Target Details	
Target:	Podoplanin (PDPN)
Alternative Name:	Podoplanin (PDPN Products)

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Target Details	
Background:	Podoplanin, also known as glycoprotein 38 (gp38), PA2.26 antigen, T1alpha (T1A), and aggrus,
	is a 38 kDa type I transmembrane sialoglycoprotein and member of the podoplanin family.
	Podoplanin is synthesized as a 172 amino acid (aa) precursor with a 22 aa signal sequence, a
	119 aa extracellular domain (ECD), a 21 aa transmembrane region, and a short, 10 aa
	cytoplasmic tail. The ECD contains abundant Ser/Thr residues as potential sites for
	Oglycosylation, and the cytoplasmic region contains putative sites for kinase C and cAMP
	phosphorylation. Mouse Podoplanin shares 77% and 46 % aa sequence identity with rat and
	human Podoplanin, respectively. Podoplanin is expressed on glomerular epithelial cells
	(podocytes), type I lung alveolar cells, lymphatic endothelial cells, and on numerous tumors
	including colorectal tumors, squamous cell carcinomas, testicular seminoma, and brain
	tumors. One study shows high expression of Podoplanin mRNA in placenta, lung, skeletal
	muscle, and heart, and weaker levels in brain, kidney, and liver. Podoplanin is the ligand for
	Ctype lectin like receptor 2 (CLEC2). Their association is dependent on sialic acid on Oglycans
	of Podoplanin. Through its association with CLEC2, Podoplanin induces platelet aggregation
	and tumor metastasis. Podoplanin is also necessary for lymphatic vessel formation, normal
	lung cell proliferation and alveolus formation at birth.
	Synonyms: Pdpn, T1a, Gp38, OTS-8, T1alpha, RANDAM-2, T1-alpha
Gene ID:	14726

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NCBI Accession:	NM_010329, NP_034459
UniProt:	Q62011
Pathways:	Dicarboxylic Acid Transport

Application Details

Comment:	Soluble Receptors
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	We recommend a quick spin followed by reconstitution in water to a concentration of 0.1- 1.0 mg/mL. This solution can then be diluted into other aqueous buffers and stored at 4 °C for 1 week or -20 °C for future use.
Buffer:	PBS

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Handling Advice:	Centrifuge vial prior to opening.	
Storage:	RT,-20 °C	
Storage Comment:	The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20°C. Reconstituted sPodoplanin should be stored in working aliquots at -20°C.	