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PDPN Human

Catalog #:PRPS-633

For research use only.

Description:PDPN Human Recombinant fused to a 20 a.a N-terminal His-Tag produced in E.Coli is a single, non-glycosylated polypeptide chain (99-207 a.a) containing 130 amino acids and having a molecular mass of 13.4kDa.

Synonyms: Podoplanin, Glycoprotein 36, PA2.26 antigen, T1A, GP36, GP40, Gp38, OTS8, T1A2, HT1A-1, PA2.26, T1-alpha, PDPN.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MASTGQPEDD TETTGLEGGV AMPGAEDDVV TPGTSEDRYK SGLTTLVATS VNSVTGIRIE DLPTSESTVH AQEQSPSATA SNVATSHSTE KVDGDTQTTV EKDGLSTVTL.

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:
The protein solution contains 20mM Tris-HCl pH7.5 & 0.1M NaCl.

Stability:
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
Podoplanin is a small mucin-like type-1 transmembrane protein, typically expressed in various specialized cell types throµghout the body. Podoplanin is a type-I integral membrane glycoprotein with diverse distribution in human tissues. PDPN physiological function is related to its mucin-type character. The homologous protein in other species has been described as a differentiation antigen and influenza-virus receptor. PDPN is expressed in lymphatic progenitor cells and afterwards during mouse development in lymphatic endothelial cells. Podoplanin is a specific marker for lymph vessel endothelial cells. Over-expression of podoplanin significantly elevates endothelial cell adhesion, migration, and tube formation. Inhibition of Podoplanin expression decreases cell adhesion in human dermal lymphatic endothelial cells. Podoplanin is used as a specific marker for lymphatic endothelium in histopathology. Podoplanin expression is increased in nearly all human colon, rectum, and small intestine tumors. AGGRUS may serve as a diagnostic marker that distinguishes seminomas, the majority of which over express the protein, from embryonal carcinoma in testicular germ cell tumors.

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