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### Recombinant human Podoplanin/PDPN protein

Catalog Number: PDP0801

#### PRODUCT INFORMATION

#### **Expression system**

E.coli

#### **Domain**

99-207aa

#### UniProt No.

086YL7

#### **NCBI Accession No.**

NP 006465

#### **Alternative Names**

TIA2, T1A, T1 ALPHA GENE, T1 alpha, Podoplanin, PDPN, PA2.26 antigen, OTTHuMP00000044504, OTTHuMP0000009640, OTS8, Lung type I cell membrane-associated glycoprotein isoform a, Lung type I cell membrane associated glycoprotein isoform a AGGRuS, Lung type I cell membrane associated glycoprotein, hT1alpha1, HT1A-1, GP40, Gp38, GP36, Glycoprotein 36 KD

#### **PRODUCT SPECIFICATION**

#### **Molecular Weight**

13.4 kDa (130aa) confirmed by MALDI-TOF

#### **Concentration**

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 0.1M NaCl

#### **Purity**

> 95% by SDS-PAGE

#### Tag

His-Tag

#### **Application**

SDS-PAGE

#### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

Podoplanin (PDPN) is a small mucin-like transmembrane protein, widely expressed in various specialized cell types throughout the body. This 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



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protein in other species has been described as a differentiation antigen and influenza-virus receptor. Recombinant human PDPN protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by conventional chromatography techniques.

#### **Amino acid Sequence**

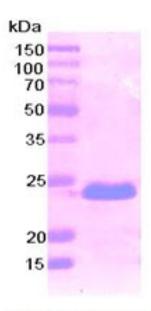
MGSSHHHHHH SSGLVPRGSH MASTGQPEDD TETTGLEGGV AMPGAEDDVV TPGTSEDRYK SGLTTLVATS VNSVTGIRIE DLPTSESTVH AQEQSPSATA SNVATSHSTE KVDGDTQTTV EKDGLSTVTL

#### **General References**

Wicki A., et al. (2006) Br J Cancer. 96(1):1-5. Zimmer G., et al. (1999) Biochem J. 341, 277-84.

#### **DATA**

#### **SDS-PAGE**



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

