# Recombinant human Podoplanin/PDPN protein

Catalog Number: PDP0801

## PRODUCT INFORMATION

**Expression system**
E.coli

**Domain**
99-207aa

**UniProt No.**
Q86YL7

**NCBI Accession No.**
NP_006465

**Alternative Names**
TIA2, T1A, T1 ALPHA GENE, T1 alpha, Podoplanin, PDPN, PA2.26 antigen, OTTHuMP00000044504, OTTHuMP00000009640, 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, hT1alpha2, 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 BCA 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

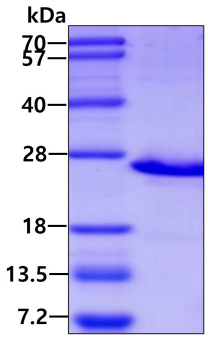
<MGSSHHHHHH SSGLVPRGSH> MASTGQPEDD TETTGLEGGV AMPGAEDDVV TPGTSEDRYK SGLTTLVATS VNSVTGIRIE DLPTSESTVH AQEQSPSATA SNVATSHSTE KVDGDTQTTV EKDGLSTVTL

### 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




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