

# Recombinant Mouse CDCP1/gp140/CD318 Protein

Catalog No.: RP01480 Recombinant

## **Sequence Information**

Species Gene ID Swiss Prot Mouse 109332 05U462

**Tags** C-His&Avi

**Synonyms** 

CDCP1;CD318;SIMA135;TRASK;UNQ2486;PRO5773;CDCP1

## **Product Information**

**Source** Purification HEK293 cells ≥ 95 % as

determined by SDS-PAGE.

PAGE

Calculated MW Observed MW

75.06 kDa 110-120 kDa

#### **Endotoxin**

< 0.1 EU/ $\mu$ g of the protein by LAL method.

#### **Formulation**

Lyophilized from a  $0.22 \mu m$  filtered solution of PBS, pH 7.4.

#### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## **Background**

CDCP1 contains three extracellular CUB domains. It is a putative stem cell marker that is highly expressed in some human cancer cells and both, typical and atypical (cancerous) colons. It interacts with CDH2/N-cadherin, CDH3/P-cadherin, SDC1/syndecan-1, SDC4/syndecan-4 and the serine protease ST14/MT-SP1. It also interacts with SRC and PRKCG/protein kinase C gamma. CDCP1 is taken as a key regulator of EGF/EGFR-induced cell migration. It has been shown that signaling via EGF/EGFR induces migration of ovarian cancer Caov3 and OVCA420 cells with concomitant up-regulation of CDCP1 mRNA and protein. Consistent with a role in cell migration CDCP1 relocates from cell-cell junctions to punctate structures on filopodia after activation of EGFR. It may be involved in cell adhesion and cell matrix association. It also may play a role in the regulation of anchorage versus migration or proliferation versus differentiation via its phosphorylation. It has been taken as a novel marker for leukemia diagnosis and immature hematopoietic stem cell subsets.

## **Basic Information**

#### **Description**

Recombinant Mouse CDCP1/gp140/CD318 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Arg25-Ala667) of mouse CDCP1/CD318 (Accession #NP\_598735.2) fused with a 6×His[Avi tag at the Cterminus.

#### **Bio-Activity**

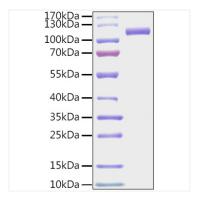
## Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

# **Validation Data**



Recombinant Mouse CDCP1/gp140/CD318 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.