

# Recombinant Human CDCP1/gp140/CD318 Protein

Catalog No.: RP01450 Recombinant

## **Sequence Information**

Species Gene ID Swiss Prot Human 64866 Q9H5V8-1

Tags C-His

**Synonyms** CD318; TRASK;

SIMA135;CDCP1;SIMA135;TRASK

## **Product Information**

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

determined by SDS-

PAGE.

Calculated MW Observed MW

72.57 kDa 100-120 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 Human CDCP1/gp140/CD318 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Phe30-Leu666) of human CDCP1 (Accession #NP\_073753.3) fused with a  $6\times$ His tag at the C-terminus.

#### **Bio-Activity**

Measured by its binding ability in a functional ELISA. Immobilized Human CDCP1 (Catalog #RP01450) at 1  $\mu$ g/mL (100  $\mu$ L/well) can bind Human CDH3 (Catalog #RP01491) with a linear range of 0.2-2.72  $\mu$ g/mL.

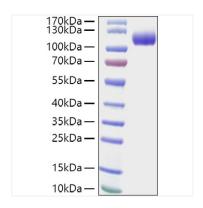
### Storage

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

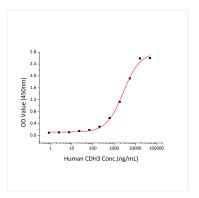
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

## **Validation Data**



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



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