

Recombinant Human gp140/CDCP1/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% by SDS-PAGE.

Endotoxin

<0.1EU/μg

Formulation

Lyophilized from a 0.22 μm 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 stabilizer (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 gp140/CDCP1/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×His tag at the C-terminus.

Bio-Activity

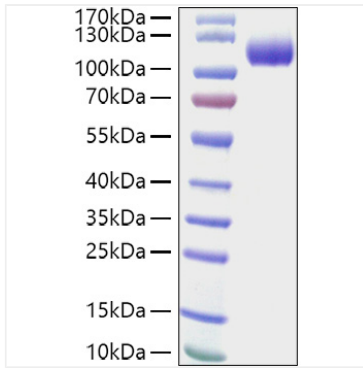
Storage

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

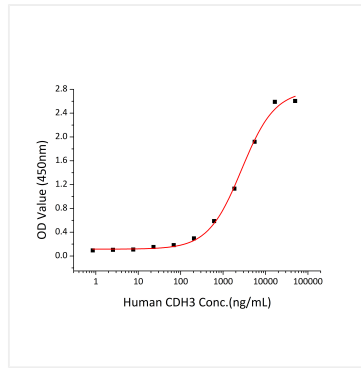
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human gp140/CDCP1/CD318 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 100-120kDa.



Immobilized Human CDCP1 (Catalog #RP01450) at 1 $\mu\text{g/mL}$ (100 μL /well) can bind Human CDH3 (Catalog #RP01491) with a linear range of 0.2-2.72 $\mu\text{g/mL}$.