Recombinant Human CDCP1/gp140/CD318 Protein

Catalog No.: RP01450

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Sequence Information

Species
Human

Gene ID
64866

Swiss Prot
Q9H5V8-1

Tags
C-His

Synonyms
CD318, TRASK, SIMA135,CDCP1, SIMA135,TRASK

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
72.57 kDa

Observed MW
100-120 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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×His tag at the C-terminus.

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

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

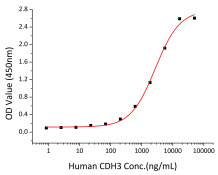
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

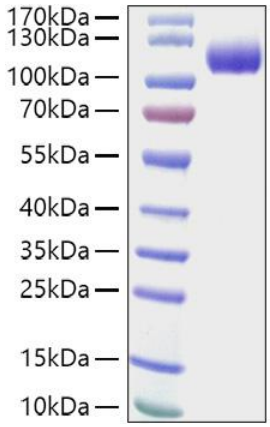
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Validation Data



Immobilized Human CDCP1 (Catalog #RP01450) at 1 μg/mL (100 μL/well) can bind Human CDH3 (Catalog #RP01491) with a linear range of 0.2-2.72 μg/mL.



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