

## CDCP1 Protein, Rhesus (HEK293, His)

Cat. No.:	HY-P77625
Synonyms:	CDCP1; CD318; SIMA135; TRASK; UNQ2486; PRO5773
Species:	Rhesus Macaque
Source:	HEK293
Accession:	XP_001114659 (A29-T667)
Gene ID:	714333
Molecular Weight:	80-115 kDa

### PROPERTIES

Biological Activity	Immobilized Rhesus CDCP1 at 2 µg/mL(100 µl/Well) on the plate. Dose response curve for Anti-CDCP1 Antibody, hFc Tag with the EC <sub>50</sub> of ≤17.5 ng/mL determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

#### Background

CDCP1 Protein appears to be involved in cell adhesion and cell matrix association, suggesting a role in mediating interactions crucial for cellular processes. Its potential involvement in the regulation of anchorage versus migration or proliferation versus differentiation, as indicated by its phosphorylation, implies a dynamic role in modulating cell behavior. Additionally, CDCP1 may serve as a novel marker for leukemia diagnosis and immature hematopoietic stem cell subsets, providing potential diagnostic and therapeutic insights. As a member of the tetraspanin web implicated in tumor progression and metastasis, CDCP1 interacts with key molecules including CDH2/N-cadherin, CDH3/P-cadherin, SDC1/syndecan-1, SDC4/syndecan-4, the serine protease ST14/MT-SP1, SRC, and PRKCG/protein kinase C gamma. The diversity of its interactions underscores its potential impact on cellular processes and suggests a multifaceted role in both normal and pathological conditions. Further exploration of CDCP1's functions and regulatory mechanisms could provide deeper insights into its contributions to cellular dynamics and its potential as a therapeutic target.

---

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA