

CDCP1 Protein, Mouse (Biotinylated, HEK293, His-Avi)

Cat. No.:	HY-P78101
Synonyms:	CDCP1; CD318; SIMA135; TRASK; UNQ2486; PRO5773
Species:	Mouse
Source:	HEK293
Accession:	Q5U462 (R25-A667)
Gene ID:	109332
Molecular Weight:	80-110 kDa

PROPERTIES

Biological Activity	Anti-CDCP1 Antibody captured on CM5 Chip via Protein A can bind Biotinylated Mouse CDCP-1, His Tag with an affinity constant of 0.45 μ M as determined in SPR assay (Biacore T200).
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μ m filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ 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.

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