

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CDCP1 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human CDCP1 isoform 1 Phe30-Leu666 Accession # NP_073753
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Human CDCP1
Flow Cytometry	2.5 µg/10 ⁶ cells	SW480 human colorectal adenocarcinoma cell line

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

CDCP1, also known as SIMA135, is a novel 140 kDa type I transmembrane glycoprotein with three CUB protein-protein interaction domains in its 635 amino acid (aa) extracellular region. The 148 aa cytoplasmic region contains canonical phosphorylation sites for Sre kinase family members and binding sites for SH3 domains. By alternative splicing, a secreted 310 aa residue form of CDCP1 also exists. The amino-terminal region of approximately 265 aa of the type I membrane CDCP1 can also be proteolytically cleaved. CDCP1 is found on the surface of epithelial and bone marrow-derived stem cells. The extracellular region of human CDCP1 shares 84% aa sequence identity with that of the mouse protein.