

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CDCP1 in direct ELISAs and 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 Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

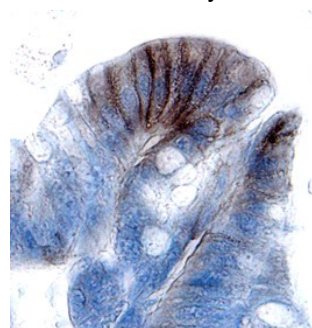
APPLICATIONS

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
Immunohistochemistry	5-15 µg/mL	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

Immunohistochemistry



CDCP1 in Human Colon Cancer Tissue.

CDCP1 was detected in immersion fixed paraffin-embedded sections of human colon cancer tissue using Goat Anti-Human CDCP1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2666) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific labeling was localized to the apices of colonic villi. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

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. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <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 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 identity with that of the mouse protein.