

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human CDCP1 in direct ELISAs. Recognizes intact protein (aa 33-666) of human CDCP1.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 309121
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human CDCP1 isoform 1 Ala33-Leu666 Accession # NP_073753
<b>Conjugate</b>	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
<b>Formulation</b>	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

## 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
<b>Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	SW480 human colorectal adenocarcinoma cell line

## PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

## BACKGROUND

CDCP1, also known as SIMA135, is a 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 Src kinase family members and binding sites for SH3 domains. By alternative splicing, a secreted 310 aa 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.

## PRODUCT SPECIFIC NOTICES

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