Human CDCP1 APC-conjugated Antibody

Monoclonal Mouse IgG_1 Clone # 309116

Catalog Number: FAB26663A

100 TESTS

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CDCP1 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant mouse CDCP1 is observed.
Source	Monoclonal Mouse IgG_1 Clone # 309116
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human CDCP1 Ala33-Leu666 Accession # NP_073753
Conjugate	Allophycocyanin Excitation Wavelength: 620-650 nm Emission Wavelength: 660-670 nm
Formulation	Supplied 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.

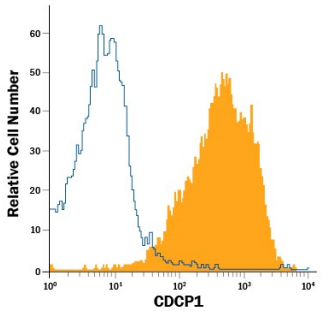
APPLICATIONS

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
Flow Cytometry	10 µL/10^6 cells	See Below

DATA

Flow Cytometry



Detection of CDCP1 in SW480 Human Cell Line by Flow Cytometry. SW480 human colorectal adenocarcinoma cell line was stained with Mouse Anti-Human CDCP1 APC-conjugated Monoclonal Antibody (Catalog # FAB26663A, filled histogram) or isotype control antibody (Catalog # IC002A, open histogram). View our protocol for Staining Membrane-associated Proteins.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Protect from light. Do not freeze.** ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

CDCP1, also known as SIMA135 and CD318, 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 Src kinase family members and binding sites for SH3 domains. By alternative splicing, a secreted form of CDCP1 is also generated. An amino-terminal region of approximately 265 aa can also be proteolytically cleaved and released as a 65 kda fragment. Notably, the retained 70 kDa membrane-bound fragment serves as a signal-transducing receptor for Integrin α2β1. CDCP1 is found on the surface of colonic epithelial and bone marrow-derived stem cells. The extracellular region of human CDCP1 shares 84% aa sequence identity with that of the mouse protein.

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