

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CDCP1 in direct ELISAs and Western blots. Recognizes an epitope found between aa 33-369 of human CDCP1.
Source	Monoclonal Mouse IgG ₁ Clone # 309137
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human CDCP1 isoform 1 Ala33-Leu666 Accession # NP_073753
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunoprecipitation	Optimal dilution of this antibody should be experimentally determined.

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, 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 Src 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.

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