

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CDCP1 in direct ELISAs and Western blots. In direct ELISAs, approximately 25% cross-reactivity with recombinant human CDCP1 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse CDCP1 Arg25-Ala667 Accession # Q5U462
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.
Immunohistochemistry	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 (CUB-domain containing protein 1; also CD318 and SIMA135) is a novel, 135 kDa cell surface glycoprotein that is found on tumor, stem cells, keratinocytes and colonic epithelial cells. It is reported that this protein is overexpressed in colon and lung cancers. It is a type I transmembrane (TM) protein that is involved with cell adhesion. Mouse CDCP1 is synthesized as an 833 amino acid (aa) precursor. It contains an extracellular region with three CUB domains (aa 30-667) and a phosphotyrosine site at Tyr731. When unligated, CDCP1 can be proteolytically cleaved between aa's 270-300. This generates an 80 kDa TM protein that may be missing the N-terminal CUB domain (aa 221-350). Over aa's 25-667, mouse CDCP1 is 83% and 92% aa identical to human and rat CDCP1, respectively.

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