Mouse CDCP1 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF4515

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
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 Mouse CDCP1
Immunohistochemistry	5-15 µg/mL	Immersion fixed frozen sections of mouse embryo (E11-13)

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.** ● 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 (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.