

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CDCP1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human CDCP1 is observed.
Source	Monoclonal Rat IgG ₁ Clone # 469114
Purification	Protein A or G purified from hybridoma culture supernatant
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	1 µg/mL	Recombinant Mouse CDCP1
Flow Cytometry	2.5 µg/10 ⁶ cells	RAW 264.7 mouse monocyte/macrophage cell line

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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. <ul style="list-style-type: none"> ● 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

CUB domain containing protein 1 (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 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.