

# Product Datasheet

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## Anti-Human/Mouse CDCP1 (CD318)

### Purified

### Monoclonal Antibody

#### Product Information

**Product No.:** C9110  
**Clone:** 9A2  
**RRID:** AB\_2829878  
**Isotype:** Mouse IgG2b  $\kappa$   
**Storage:** Sterile 2-8°C

#### Product Description

##### Specificity:

Clone 9A2 recognizes an epitope within the extracellular domain of human/mouse CDCP1.

##### Antigen Distribution:

CDCP1 is widely expressed in the esophagus, skin, colon, duodenum, stomach and other tissues.

##### Background:

CDCP1 is a transmembrane glycoprotein of molecular weight 140 kDa. CDCP1 is a ligand for a receptor molecule (CD6) that is expressed on some T-cells and is thought to be involved in T-cell migration and chemotaxis. It has a large extracellular domain that includes two CUB domains, and a smaller intracellular domain. The smaller intracellular domain contains five tyrosine residues (Y707, Y734, Y743, Y762 and Y806). CDCP1 is cleaved next to Arg368 (at the extracellular domain) by serine proteases. This cleavage yields a truncated molecule with a molecular weight of 80 kDa.<sup>1</sup> CDCP1 is not typically cleaved *In vivo*. However, its cleavage can be induced during tumorigenesis or tissue injury.<sup>2</sup> CDCP1 acts as a substrate for Src family kinases which exclusively mediate the phosphorylation of CDCP1. In cultured cells, tyrosine phosphorylation of CDCP1 transpires when cells are stimulated to detach via trypsin or EDTA. This detachment is associated with the phosphorylation of CDCP1 along with the simultaneous dephosphorylation of focal adhesion proteins. Conversely, during cellular attachment, CDCP1 is dephosphorylated, while focal adhesion proteins are simultaneously phosphorylated. Furthermore, CDCP1 is suspected to play a role in autoimmune diseases such as encephalomyelitis, multiple sclerosis and inflammatory arthritis.<sup>3</sup>

##### Known Reactivity Species:

Human, Mouse

##### Format:

Purified

##### Immunogen:

His-tagged recombinant fragment from the internal region of human CUB domain-containing protein 1

##### Formulation

This purified antibody is formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.4, 1% BSA and 0.09% sodium azide as a preservative.

##### Storage and Stability

This purified antibody is stable when stored at 2-8°C. **Do not freeze.**

##### Applications

##### Applications and Recommended Usage (Quality Tested By Leinco):

**FC** The suggested concentration for this 9A2 antibody for staining cells in flow cytometry is 1  $\mu$ g per  $10^6$  cells in a volume of 100  $\mu$ l. Titration of the reagent is recommended for optimal performance for each application.

##### Country of Origin

USA

Products are for research use only. Not for use in diagnostic or therapeutic procedures.

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