

CDCP1 (D1W9N) Rabbit mAb

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Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 140, 70	Source/Isotype: Rabbit IgG	UniProt ID: #Q9H5V8	Entrez-Gene Id: 64866
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:100

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. *Do not aliquot the antibody.*

Specificity/Sensitivity

CDCP1 (D1W9N) Rabbit mAb recognizes endogenous levels of total CDCP1 protein. This antibody recognizes both 140 kDa full-length CDCP1 protein and smaller CDCP1 cleavage products.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human CDCP1 protein.

Background

CUB domain-containing protein 1 (CDCP1, SIMA135) is a putative stem cell marker shown in research studies to be highly expressed in some human cancer cells and in both typical and atypical (cancerous) colons (1). Expression of CDCP1 may be epigenetically regulated, as methylation of promoter CpG sequences results in decreased CDCP1 expression (2). The corresponding *CDCP1* gene encodes a glycoprotein that acts as a complex, multidomain transmembrane antigen. CDCP1 has three extracellular CUB domains that may be involved in cell adhesion or extracellular matrix interactions (1,3). Src-family kinases may phosphorylate CDCP1 at five tyrosine residues within its cytoplasmic domain to provide a potential binding site for SH2 domain-containing proteins (3). CDCP1 is a putative hematopoietic stem cell marker (4,5).

Background References

1. Scherl-Mostageer, M. et al. (2001) *Oncogene* 20, 4402-8.
2. Ikeda, J.I. et al. (2006) *J. Pathol.* 210, 75-84.
3. Hooper, J.D. et al. (2003) *Oncogene* 22, 1783-94.
4. Conze, T. et al. (2003) *Ann. N.Y. Acad. Sci.* 996, 222-226.
5. Bühring, H.J. et al. (2004) *Stem Cells* 22, 334-343.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human

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