

#4115 Store at -20C

CDCP1 Antibody


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Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 140, 70	Source: Rabbit	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 and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	CDCP1 Antibody detects endogenous levels of total CDCP1 protein. The 140kDa band is full length, glycosylated CDCP1, the 70kDa band is a cleavage product of CDCP1.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino acids near the carboxy-terminus of human CDCP1. Antibodies are purified by peptide affinity chromatography.	

Product Description

MW (kDa)	140, 70
Activity	Tech Id #98793: CDCP1 was detected in normal placenta tissue in Western blot analysis.

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	WB: Western Blotting IP: Immunoprecipitation
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected

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