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CDCP1 Antibody

For Research Use Only. Not for Use in Diagnostic Procedures.

MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
135	Rabbit	#Q9H5V8	64866
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 CDCP1 protein. The antibody does not cross-react with unrelated proteins.		
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino-terminal sequence of human CDCP1. Antibodies are purified by protein A and peptide affinity chromatography.		
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 <i>CDCP1</i> 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	<ol style="list-style-type: none"> 1. Scherl-Mostageer, M. et al. (2001) <i>Oncogene</i> 20, 4402-8. 2. Ikeda, J.I. et al. (2006) <i>J. Pathol.</i> 210, 75-84. 3. Hooper, J.D. et al. (2003) <i>Oncogene</i> 22, 1783-94. 4. Conze, T. et al. (2003) <i>Ann. N.Y. Acad. Sci.</i> 996, 222-226. 5. Bühring, H.J. et al. (2004) <i>Stem Cells</i> 22, 334-343. 		

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