

#14965 Store at -20°C

Phospho-CDCP1 (Tyr743) (D2G2J) Rabbit mAb



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H	Endogenous	140, 70	Rabbit IgG	#Q9H5V8	64866

Product Usage Information	Application Western Blotting	Dilution 1:1000
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	Phospho-CDCP1 (Tyr743) (D2G2J) Rabbit mAb recognizes endogenous levels of CDCP1 protein only when phosphorylated at Tyr743. This antibody may cross-react with other tyrosine-phosphorylated proteins.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr743 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 <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).
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
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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