

Store at  
-20°C

# Phospho-CDCP1 (Tyr743) (D2G2J) Rabbit mAb

#14965



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Entrez-Gene ID #64866  
UniProt ID #Q9H5V8

New 10/15

For Research Use Only. Not For Use In Diagnostic Procedures.

Applications W Endogenous	Species Cross-Reactivity* H	Molecular Wt. 140, 70 kDa	Isotype Rabbit IgG**
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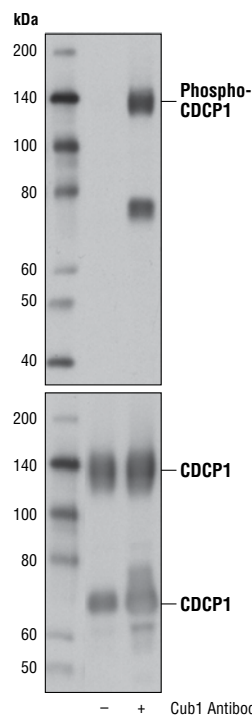
**Background:** CUB domain containing protein 1 (CDCP1, SIMA135) is a putative stem cell marker shown in research studies to be highly expressed in some human cancer cells and in both typical and atypical (cancerous) colons (1). Expression of CDCP1 may be epigenetically regulated, as methylation of promoter 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).

**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 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.



Western blot analysis of extracts from DLD-1 cells, untreated (-) or treated with a Cub1 antibody (+), using Phospho-CDCP1 (Tyr743) (D2G2J) Rabbit mAb (upper) and CDCP1 (D1W9N) Rabbit mAb #13794 (lower).

**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.

\*Species cross-reactivity is determined by western blot.

\*\*Anti-rabbit secondary antibodies must be used to detect this antibody.

#### Recommended Antibody Dilutions:

Western blotting 1:1000

For product specific protocols and a complete listing of recommended companion products please see the product web page at [www.cellsignal.com](http://www.cellsignal.com)

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

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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide Species Cross-Reactivity: H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.