

# Phospho-cdc25C (Ser216) Blocking Peptide

✓ 100 µg



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

**Description:** This peptide is used to block Phospho-cdc25C (Ser216) (63F9) Rabbit mAb #4901 reactivity.

**Background:** Cdc25 is a protein phosphatase responsible for dephosphorylating and activating cdc2, a crucial step in regulating the entry of all eukaryotic cells into mitosis (1). cdc25C is constitutively phosphorylated at Ser216 throughout interphase by c-TAK1, while phosphorylation at this site is DNA damage-dependent at the G2/M checkpoint (2). When phosphorylated at Ser216, cdc25C binds to members of the 14-3-3 family of proteins, sequestering cdc25C in the cytoplasm and thereby preventing premature mitosis (3). The checkpoint kinases Chk1 and Chk2 phosphorylate cdc25C at Ser216 in response to DNA damage (4,5).

**Quality Control:** The quality of the peptide was evaluated by reversed-phase HPLC and by mass spectrometry. The peptide blocks Phospho-cdc25C (Ser216) (63F9) Rabbit mAb #4901 signal in peptide dot blot.

**Directions for Use:** Use as a blocking reagent to evaluate the specificity of antibody reactivity in peptide dot blot protocols. Recommended antibody dilutions can be found on the product data sheet.

**Background References:**

- (1) Jesus, C. and Ozon, R. (1995) *Prog. Cell Cycle Res.* 1, 215–228.
- (2) Peng, C.Y. et al. (1997) *Science* 277, 1501–1505.
- (3) Kumagai, A. and Dunphy, W.G. (1999) *Genes Dev.* 13, 1067–1072.
- (4) Blasina, A. et al. (1999) *Curr. Biol.* 9, 1–10.
- (5) Furnari, B. et al. (1999) *Mol. Biol. Cell* 10, 833–845.

Entrez Gene ID #995  
UniProt ID #P30307

**Storage:** Supplied in 20 mM potassium phosphate (pH 7.0), 50 mM NaCl, 0.1 mM EDTA, 1 mg/ml BSA and 5% glycerol. 1% DMSO. Store at -20°C.

**For product specific protocols please see the web page for this product at [www.cellsignal.com](http://www.cellsignal.com).**

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