

Store at -20C

#9522

cdc25C Antibody

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

MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
57, 60, 85	Rabbit	#P30307	995

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	cdc25C Antibody detects endogenous levels of total cdc25C protein. The antibody recognizes interphase cdc25C (57 and 60 kDa) and hyperphosphorylated mitotic cdc25C (85 kDa).
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser216 of human cdc25C. Antibodies are purified by protein A and peptide affinity chromatography.
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).
Background References	<ol style="list-style-type: none"> Jessus, C. and Ozon, R. (1995) <i>Prog. Cell Cycle Res.</i> 1, 215-228. Peng, C.Y. et al. (1997) <i>Science</i> 277, 1501-1505. Kumagai, A. and Dunphy, W.G. (1999) <i>Genes Dev.</i> 13, 1067-1072. Blasina, A. et al. (1999) <i>Curr. Biol.</i> 9, 1-10. Furnari, B. et al. (1999) <i>Mol. Biol. Cell</i> 10, 833-845.

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