## Phospho-cdc25C (Ser216) Antibody



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

Applications: W	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 60	Source/Isotype: Rabbit	UniProt ID: #P30307	Entrez-Gene Id: 995
Product Usage Information	9	<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Phospho-cdc25C (Ser216) Antibody detects endogenous levels of cdc25C only when phosphorylated at Ser216.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide 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		1. Jessus, C. and Ozon, R. (1995) <i>Prog. Cell Cycle Res.</i> 1, 215-228. 2. Peng, C.Y. et al. (1997) <i>Science</i> 277, 1501-1505. 3. Kumagai, A. and Dunphy, W.G. (1999) <i>Genes Dev.</i> 13, 1067-1072. 4. Blasina, A. et al. (1999) <i>Curr. Biol.</i> 9, 1-10. 5. Furnari, B. et al. (1999) <i>Mol. Biol. Cell</i> 10, 833-845.				
Species Reacti	ivity	Species reactivity is de	etermined by testin	g in at least one approv	ed 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		W: Western Blotting				
Cross-Reactivity Key		H: Human				
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