1/1/24, 12:37 PM Revision 1

R	evision 1					
	Phospho-cdc25C (Ser216) Antibody				Cell Signaling TECHNOLOGY®	
	Stor				Orders:	877-616-CELL (2355) orders@cellsignal.com
	ω				Support:	877-678-TECH (8324)
	#9528				Web:	info@cellsignal.com cellsignal.com
	#			3 Trask L	ane Danvers Ma	ssachusetts 01923 USA
F	or Research Use Only. Not for U	se in Diagnostic Proce	edures.			
	Applications: Reactivi WB H	ty: Sensitivity: Endogenous	MW (kDa): 60	Source: Rabbit	UniProt ID: #P30307	Entrez-Gene Id: 995
	Product Usage Information	Application			Dilution	
		Western Blotting			1:1000	
	Storage	Supplied in 10 mM sodiu 20°C. Do not aliquot the		i), 150 mM NaCl, 100	μg/ml BSA and 50%	∕₀ glycerol. Store at –
	Specificity / Sensitivity	Phospho-cdc25C (Ser2: Ser216.	16) Antibody detect	s endogenous levels	of cdc25C only whe	en phosphorylated at
	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. 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					
	Background References	1. Jessus, C. and Ozon, 2. Peng, C.Y. et al. (199 3. Kumagai, A. and Dun 4. Blasina, A. et al. (199 5. Furnari, B. et al. (199	7) Science 277, 15 phy, W.G. (1999) G 9) Curr. Biol. 9, 1-1	01-1505. Senes Dev. 13, 1067-1 0.		
	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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