e at -20C	Phospho-Chk1 (Ser345) Antibody			
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com	
11		Support:	877-678-TECH (8324)	
234		Web:	info@cellsignal.com cellsignal.com	
#	3 Trask La	ne Danvers	Massachusetts 01923 USA	

For Research Use Only	Not for Use	in Diagnostic I	Procedures
FOI INESCAICH USE OIN	. NOLIDI 030	in Diagnostic i	Toccuures.

Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 56	Source: Rabbit	UniProt ID: #O14757	Entrez-Gene Id: 1111	
Product Usage Information	•	oplication estern Blotting			Dilution 1:1000		
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		Phospho-Chk1 (Ser345) Antibody detects endogenous levels of Chk1 only when phosphorylated at serine 345. This antibody does not cross-react with Chk1 when phosphorylated at other sites.					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser345 of human Chk1. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	con Ser res Ser Ser stal the acti bloc pho forr thro	trol, embryonic devel 317 and Ser345 by A ponse to blocked DN 345 serves to localiz 317 along with site-s led DNA replication (cdc25 family of phos vity through 14-3-3 b cking the activation o osphorylate cdc25B a nation and chromatin	lopment, and tumo TM/ATR, followed A replication and c e Chk1 to the nucl pecific phosphoryl 4). Chk1 exerts its phatases. Chk1 pl inding (5). Activate f cdc2 and transitio nd inhibit its activa condensation (7). rora B and BubR1	or suppression (1). A by autophosphoryla certain forms of gence eus following checkp ation of PTEN allows checkpoint mechan hosphorylation of cd ed Chk1 can inactiva on into mitosis (6). C tition of CDK1-cyclin Furthermore, Chk1 (8). Research studie	n important role in DNA of ctivation of Chk1 involve titon of Ser296. Activation toxic stress (2). While pl point activation (3), phos s for re-entry into the cell ism on the cell cycle, in p c25A targets it for proteo te cdc25C via phosphory entrosomal Chk1 has be B1, thereby abrogating r plays a role in spindle cl es have implicated Chk1 cer cell lines (9).	s phosphorylation at n occurs in hosphorylation at phorylation at I cycle following part, by regulating plysis and inhibits its ylation at Ser216, een shown to mitotic spindle heckpoint function	
Background Refe	2. Z 3. J 4. N 5. C 6. Z 7. L 8. Z	iu, Q. et al. (2000) G hao, H. and Piwnica- iang, K. et al. (2003) Martin, S.A. and Ouch Chen, M.S. et al. (2006) Cong, Y. et al. (1998) öffler, H. et al. (2006) Cachos, G. et al. (2006) Garber, K. (2005) J Na	Worms, H. (2001) J Biol Chem 278, ni, T. (2008) Mol Ca 3) Mol Cell Biol 23 Nature 395, 507-1) Cell Cycle 5, 254 7) Dev Cell 12, 24	Mol Cell Biol 21, 41 25207-17. ancer Ther 7, 2509-1 8, 7488-97. 0. 3-7. 7-60.			
Species Reactivit	t y Spec	cies reactivity is dete	rmined by testing i	n at least one appro	ved application (e.g., we	stern blot).	
Western Blot Buffer			estern blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 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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Limited Uses

Phospho-Chk1 (Ser345) Antibody (#2341) Datasheet Without Images Cell Signaling Technology

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