e at -20C	Phospho-Chk2 (Ser19) Antibody	H.	Cell Signaling TECHNOLOGY®		
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com		
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#		3 Trask Lane Danver	s Massachusetts 01923 USA		

For Research Use Only. Not for Use in Diagnostic Procedures.	
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Applications: WB	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 62	Source: Rabbit	UniProt ID: #O96017	Entrez-Gene Id: 11200		
Product Usage Information		pplication /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-Chk2 (Ser19) Antibody detects endogenous levels of Chk2 only when phosphorylated at serine 19. The antibody does not cross-react with Chk2 phosphorylated at other sites.						
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser19 of human Chk2. Antibodies are purified by protein A and peptide affinity chromatography.						
Background Background References		Chk2 is the mammalian orthologue of the budding yeast Rad53 and fission yeast Cds1 checkpoint kinases (1-3). The amino-terminal domain of Chk2 contains a series of seven serine or threonine residues (Ser19, Thr26, Ser28, Ser33, Ser35, Ser50, and Thr68) each followed by glutamine (SQ or TQ motif). These are known to be preferred sites for phosphorylation by ATM/ATR kinases (4,5). After DNA damage by ionizing radiation (IR), UV irradiation, or hydroxyurea treatment, Thr68 and other sites in this region become phosphorylated by ATM/ATR (5-7). The SQ/TQ cluster domain, therefore, seems to have a regulatory function. Phosphorylation at Thr68 is a prerequisite for the subsequent activation step, which is attributable to autophosphorylation of Chk2 at residues Thr383 and Thr387 in the activation loop of the kinase domain (8).						
		 Allen, J.B. et al. (1994) Genes Dev. 8, 2401-2415. Weinert, T.A. et al. (1994) Genes Dev. 8, 652-665. Murakami, H. and Okayama, H. (1995) Nature 374, 817-819. Kastan, M.B. and Lim, D.S. (2000) Nat. Rev. Mol. Cell Biol. 1, 179-186. Matsuoka, S. et al. (2000) Proc. Natl. Acad. Sci. USA 97, 10389-10394. Melchionna, R. et al. (2000) Nat. Cell Biol. 2, 762-765. Ahn, J.Y. et al. (2000) Cancer Res. 60, 5934-5936. Lee, C.H. and Chung, J.H. (2001) J. Biol. Chem. 276, 30537-30541. 						
Species Reactivity	Spe	ecies reactivity is deter	rmined by testing i	n at least one approv	ved application (e.g., we	estern 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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