e at -20C	Chk2 (D9C6) Rabbit mAb		Cell Signaling	
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Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 62	Source/Isotype: Rabbit IgG	UniProt ID: #O96017	Entrez-Gene Id: 11200	
Product Usage Information	W	pplication /estern Blotting nmunoprecipitation			Dilution 1:1000 1:100		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensit	Specificity / Sensitivity Chk2 (D9C6) Rabbit mAb recognizes endogenous levels of total Chk2 protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a recombinant protein specific to human Chk2 protein. The epitope has been mapped to the amino terminus of human Chk2 protein.					
Background		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).					
Background Refer	2. 3. 4. 5. 6. 7.	Kastan, M.B. and Lim, Matsuoka, S. et al. (20 Melchionna, R. et al. (2 Ahn, J.Y. et al. (2000) (94) Genes Dev. yama, H. (1995 D.S. (2000) Na 00) Proc. Natl. J 2000) Nat. Cell Cancer Res. 60	8, 652-665.) Nature 374, 817-819. t. Rev. Mol. Cell Biol. 1, Acad. Sci. USA 97, 1038 Biol. 2, 762-765.	39-10394.		
Species Reactivity	Spe	ecies reactivity is deterr	mined by testing	g in at least one approve	ed 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	WE	B: Western Blotting IP:	Immunoprecipi	tation			
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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Chk2 (D9C6) Rabbit mAb (#6334) Datasheet Without Images Cell Signaling Technology

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