Limited Uses

Phospho-Chk2 (Ser516) Antibody



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Support:

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

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 62	Source/Isotype: Rabbit	UniProt ID: #O96017	Entrez-Gene Id: 11200
Product Usage Information		Application Western 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 (Ser516) Antibody detects endogenous levels of Chk2 only when phosphorylated at serine 516. 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 Ser516 of human Chk2. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		kinases (1-3). The ami residues (Ser19, Thr2i motif). These are kno damage by ionizing ra this region become p have a regulatory fun step, which is attribut activation loop of the	ino-terminal domain 6, Ser28, Ser33, Ser wn to be preferred adiation (IR), UV irra hosphorylated by A action. Phosphorylat able to autophosph kinase domain (8). lation at Ser516 is ir	e budding yeast Rad53 and Chk2 contains a ser 35, Ser50, and Thr68) easites for phosphorylation diation, or hydroxyurea FM/ATR (5-7). The SQ/TQ ion at Thr68 is a prerequorylation of Chk2 at resemportant for optimal Ch (9).	ies of seven serine of ch followed by gluta n by ATM/ATR kinas treatment, Thr68 a of cluster domain, the uisite for the subsect idues Thr383 and Ti	or threonine amine (SQ or TQ es (4,5). After DNA nd other sites in erefore, seems to quent activation hr387 in the
Background References		 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. Wu, X. and Chen, J. (2003) J. Biol. Chem. 278, 36163-36168. 				
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		W: Western Blotting				
Cross-Reactivity Key		H: Human				
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