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#6981

Phospho-Rad17 (Ser645) (D5H5) Rabbit mAb

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

Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 80	Source/Isotype: Rabbit IgG	UniProt ID: #O75943	Entrez-Gene Id: 5884
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Product Usage Information	Application	Dilution
	Western Blotting	1:1000
	Immunoprecipitation	1:200
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
Specificity/Sensitivity	Phospho-Rad17 (Ser645) (D5H5) Rabbit mAb recognizes endogenous levels of Rad17 protein only when phosphorylated at Ser645.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser645 of human Rad17 protein.	
Background	The human checkpoint protein Rad17 and its fission and budding yeast orthologues (<i>Schizosaccharomyces pombe</i> Rad17 and <i>Saccharomyces cerevisiae</i> Rad24, respectively) are involved in the activation of checkpoint signals in response to DNA damage or disruption of DNA synthesis (1-4). Treatment of human cells with genotoxic agents induces ATM/ATR-dependent phosphorylation of Rad17 at Ser635 and Ser645. Rad17 phosphorylation is a critical early event during checkpoint signaling in DNA-damaged cells (5-7).	
Background References	<ol style="list-style-type: none"> 1. Griffiths, D.J. et al. (1995) <i>EMBO J</i> 14, 5812-23. 2. Li, L. et al. (1999) <i>Oncogene</i> 18, 1689-99. 3. Bao, S. et al. (1998) <i>Cell Growth Differ</i> 9, 961-7. 4. von Deimling, F. et al. (1999) <i>Hum Genet</i> 105, 17-27. 5. Bao, S. et al. (2001) <i>Nature</i> 411, 969-74. 6. Post, S. et al. (2001) <i>Proc Natl Acad Sci U S A</i> 98, 13102-7. 7. Wang, X. et al. (2001) <i>Cancer Res</i> 61, 7417-21. 	

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 IP: Immunoprecipitation
Cross-Reactivity Key	H: Human
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