

#13404 Store at -20°C

## Phospho-Rad17 (Ser635) (D6K9P) Rabbit mAb



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H	Endogenous	80	Rabbit IgG	#O75943	5884

<b>Product Usage Information</b>	<b>Application</b> Western Blotting	<b>Dilution</b> 1:1000
<b>Storage</b>	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.	
<b>Specificity / Sensitivity</b>	Phospho-Rad17 (Ser635) (D6K9P) Rabbit mAb recognizes endogenous levels of Rad17 protein only when phosphorylated at Ser635.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser635 of human Rad17 protein.	
<b>Background</b>	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).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>Griffiths, D.J. et al. (1995) <i>EMBO J</i> 14, 5812-23.</li> <li>Li, L. et al. (1999) <i>Oncogene</i> 18, 1689-99.</li> <li>Bao, S. et al. (1998) <i>Cell Growth Differ</i> 9, 961-7.</li> <li>von Deimling, F. et al. (1999) <i>Hum Genet</i> 105, 17-27.</li> <li>Bao, S. et al. (2001) <i>Nature</i> 411, 969-74.</li> <li>Post, S. et al. (2001) <i>Proc Natl Acad Sci U S A</i> 98, 13102-7.</li> <li>Wang, X. et al. (2001) <i>Cancer Res</i> 61, 7417-21.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	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.
<b>Applications Key</b>	<b>WB:</b> Western Blotting
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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