

#6981 Store at -20°C

Phospho-Rad17 (Ser645) (D5H5) Rabbit mAb



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

Product Usage Information

Application

Western Blotting
Immunoprecipitation

Dilution

1:1000
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 (*Schizosaccharomyces pombe* Rad17 and *Saccharomyces cerevisiae* 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

1. Griffiths, D.J. et al. (1995) *EMBO J* 14, 5812-23.
2. Li, L. et al. (1999) *Oncogene* 18, 1689-99.
3. Bao, S. et al. (1998) *Cell Growth Differ* 9, 961-7.
4. von Deimling, F. et al. (1999) *Hum Genet* 105, 17-27.
5. Bao, S. et al. (2001) *Nature* 411, 969-74.
6. Post, S. et al. (2001) *Proc Natl Acad Sci U S A* 98, 13102-7.
7. Wang, X. et al. (2001) *Cancer Res* 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

WB: Western Blotting **IP:** Immunoprecipitation

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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