

Rad17 (phospho Ser645) rabbit pAb**Cat#: orb764300 (Manual)**

For research use only. Not intended for diagnostic use.

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|---------------------------------|---|
| Product Name | Rad17 (phospho Ser645) rabbit pAb |
| Host species | Rabbit |
| Applications | WB; ELISA;IHC |
| Species Cross-Reactivity | Human;Mouse |
| Recommended dilutions | WB 1:500-2000;IHC-p 1:50-300; ELISA 2000-20000 |
| Immunogen | The antiserum was produced against synthesized peptide derived from human RAD17 around the phosphorylation site of Ser645. AA range:621-670 |
| Specificity | Phospho-Rad17 (S645) Polyclonal Antibody detects endogenous levels of Rad17 protein only when phosphorylated at S645. |
| Formulation | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.. |
| Storage | Store at -20°C. Avoid repeated freeze-thaw cycles. |
| Protein Name | Cell cycle checkpoint protein RAD17 |
| Gene Name | RAD17 |
| Cellular localization | Nucleus . Phosphorylated form redistributes to discrete nuclear foci upon DNA damage. |
| Purification | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| Clonality | Polyclonal |

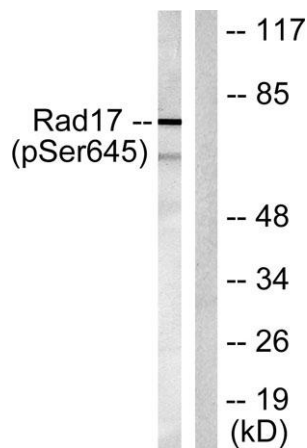
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|--------------------------------|--|
| Concentration | 1 mg/ml |
| Observed band | 77kD |
| Human Gene ID | 5884 |
| Human Swiss-Prot Number | O75943 |
| Alternative Names | RAD17; R24L; Cell cycle checkpoint protein RAD17; hRad17; RF-C/activator 1 homolog |

Background

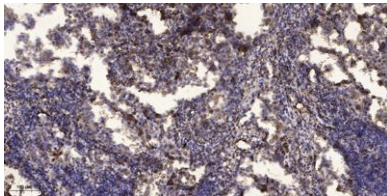
The protein encoded by this gene is highly similar to the gene product of *Schizosaccharomyces pombe rad17*, a cell cycle checkpoint gene required for cell cycle arrest and DNA damage repair in response to DNA damage. This protein shares strong similarity with DNA replication factor C (RFC), and can form a complex with RFCs. This protein binds to chromatin prior to DNA damage and is phosphorylated by the checkpoint kinase ATR following damage. This protein recruits the RAD1-RAD9-HUS1 checkpoint protein complex onto chromatin after DNA damage, which may be required for its phosphorylation. The phosphorylation of this protein is required for the DNA-damage-induced cell cycle G2 arrest, and is thought to be a critical early event during checkpoint signaling in DNA-damaged cells. Multiple alternatively spliced transcript variants of this gene, which encode four distinct protein isoforms, h



Western Blot analysis of various cells using Phospho-Rad17 (S645) Polyclonal Antibody



Western blot analysis of lysates from HeLa cells treated with UV 15', using RAD17 (Phospho-Ser645) Antibody. The lane on the right is blocked with the phospho peptide.



Immunohistochemical analysis of paraffin-embedded human Squamous cell carcinoma of lung. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).