



## Affinity-Purified Rabbit Anti-phospho-RAD9 (S277) Antibody

Specificity: Mouse phospho-RAD9 (S277)	Size: 0.1 mg
Source: Rabbit	IgG Type: rabbit IgG

**Background:**

Component of the 9-1-1 cell-cycle checkpoint response complex that plays a major role in DNA repair. The 9-1-1 complex is recruited to DNA lesion upon damage by the RAD17-replication factor C (RFC) clamp loader complex. Acts then as a sliding clamp platform on DNA for several proteins involved in long patch base excision repair (LP-BER). The 9-1-1 complex stimulates DNA polymerase beta (POLB) activity by increasing its affinity for the 3'-OH end of the primer-template and stabilizes POLB to those sites where LP-BER proceeds.

Other Name: Cell cycle checkpoint control protein RAD9

**Specificity:**

Mouse: Positive

Application : For western blot analysis, an antibody concentration of 1 µg/ml is recommended

ELISA	Positive
Western blotting	Positive 1 mg/ml
Immunohistochemistry	Positive
Immunoprecipitation	Positive
Flow cytometry	Positive

Isotype: Rabbit IgG

**Description:** This antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding the phospho sites.

**Storage:** Upon reconstitution, maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C to -70°C. Lyophilized samples are stable for twelve months from the date of receipt when stored at -20°C to -70°C

**Format:** Purified rabbit monoclonal antibody supplied in PBS with 0.02% (W/V) sodium azide. This antibody is first purified by protein G affinity chromatography. Then, the antibody fraction is peptide affinity purified in a 2-step procedure with the control and phosphorylated peptides. The phospho-specific antibody is eluted with high and low salt and neutralized immediately, followed by dialysis against PBS.

**Precautions:** This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**References:**

- [Zou Y.](#); "Interaction and colocalization of Rad9/Rad1/Hus1 checkpoint complex with replication protein A in human cells."; *Oncogene* 24:4728-4735(2005).
- [Huebscher U.](#); "The two DNA clamps Rad9/Rad1/Hus1 complex and proliferating cell nuclear antigen differentially regulate flap endonuclease 1 activity."; *J. Mol. Biol.* 353:980-989(2005).
- [Bambara R.A.](#); "The human Rad9-Rad1-Hus1 checkpoint complex stimulates flap endonuclease 1."; *Proc. Natl. Acad. Sci. U.S.A.* 101:16762-16767(2004).