# Product Name: Rad51 (phospho Thr309) Rabbit

Polyclonal Antibody Catalog #: APRab05330



# **Summary**

**Production Name** Rad51 (phospho Thr309) Rabbit Polyclonal Antibody

**Description** Rabbit Polyclonal Antibody

Host Rabbit
Application WB

**Reactivity** Human, Mouse

#### **Performance**

Conjugation	Unconjugated
Modification	Phospho Antibody
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

## **Immunogen**

Gene Name RAD51

RAD51; RAD51A; RECA; DNA repair protein RAD51 homolog 1; HsRAD51; hRAD51; Alternative Names

RAD51 homolog A

**Gene ID** 5888.0

Q06609. The antiserum was produced against synthesized peptide derived from human

SwissProt ID

RAD51 around the phosphorylation site of Thr309. AA range:275-324

**Application** 

**Dilution Ratio** WB 1:500-2000 ELISA: 1:5000.

**Molecular Weight** 

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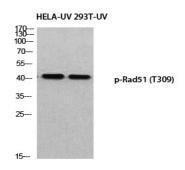
### **Background**

The protein encoded by this gene is a member of the RAD51 protein family. RAD51 family members are highly similar to bacterial RecA and Saccharomyces cerevisiae Rad51, and are known to be involved in the homologous recombination and repair of DNA. This protein can interact with the ssDNA-binding protein RPA and RAD52, and it is thought to play roles in homologous pairing and strand transfer of DNA. This protein is also found to interact with BRCA1 and BRCA2, which may be important for the cellular response to DNA damage. BRCA2 is shown to regulate both the intracellular localization and DNA-binding ability of this protein. Loss of these controls following BRCA2 inactivation may be a key event leading to genomic instability and tumorigenesis. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2009], disease: Defects in RAD51 are associated with breast cancer (BC) [MIM:114480], function: May participate in a common DNA damage response pathway associated with the activation of homologous recombination and double-strand break repair. Binds to single and double stranded DNA and exhibits DNAdependent ATPase activity. Underwinds duplex DNA and forms helical nucleoprotein filaments, PTM: Phosphorylated. Phosphorylation of Thr-309 by CHEK1/CHK1 may enhance association with chromatin at sites of DNA damage and promote DNA repair by homologous recombination., similarity: Belongs to the recA family., similarity: Belongs to the recA family. RAD51 subfamily., similarity: Contains 1 HhH domain., subcellular location: Colocalizes with RAD51AP1 to multiple nuclear foci upon induction of DNA damage., subunit: Interacts with BRCA1, BRCA2 and either directly or indirectly with p53. Interacts with XRCC3, RAD54L and RAD54B. Part of a complex with RAD51C and RAD51B. Interacts with RAD51AP1 and RAD51AP2. Interacts with CHEK1/CHK1, and this may require prior phosphorylation of CHEK1. Interacts with the MND1-PSMC3IP heterodimer (By similarity). Interacts with OBFC2B., tissue specificity: Highly expressed in testis and thymus, followed by small intestine, placenta, colon, pancreas and ovary. Weakly expressed in breast.,

#### **Research Area**

Homologous recombination; Pathways in cancer; Pancreatic cancer;

#### **Image Data**



Western blot analysis of HELA-UV 293T-UV using p-Rad51 (T309) antibody. Antibody was diluted at 1:500 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).

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### Note

For research use only.

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