



## **Anti-RAD51 homolog protein isoform 2 Phospho-polyclonal antibody**

**Category:** Phospho-polyclonal antibody

**Catalog#:** Pho-AB1F053 (phospho site: 310 T)

**Species Reactivity:** Human, Mouse

### **Immunogen/Specificity:**

Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to C-terminal residues of human RAD51 homolog protein isoform 2

**Description:** RAD51 homolog protein isoform 2 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. RAD51 homolog protein isoform 2 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.

### **Reference:**

Liang,X.S., et al, Br. J. Haematol. 146 (4), 418-423 (2009)  
Rebbeck,T.R.,et al,, Cancer Res. 69 (14), 5801-5810 (2009)  
Kovalenko,O.V., et al, Proc. Natl. Acad. Sci. U.S.A. 93 (7), 2958-2963 (1996)  
Benson,F.E., et al, EMBO J. 13 (23), 5764-5771 (1994)

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**Contact: Antagene, Inc. | Tel: 1 (866) 964-2589 | Fax: 1 (888) 225-1868 | Email: [Info@antageneinc.com](mailto:Info@antageneinc.com)**