

Anti-Phospho-RAD51 (DNA repair protein RAD51 homolog 1) Polyclonal Antibody

Cat. #: 60B941 Phospho

Description:

RAD51 (DNA repair protein RAD51 homolog 1) may participate in a common DNA damage response pathway associated with the activation of homologous recombination and double-strand break repair. RAD51 binds to single and double stranded DNA and exhibits DNA-dependent ATPase activity. RAD51 underwinds duplex DNA and forms helical nucleoprotein filaments. RAD51 interacts with BRCA1, BRCA2 and either directly or indirectly with p53. RAD51 also interacts with XRCC3, RAD54L and RAD54B. It is highly expressed in testis and thymus, followed by small intestine, placenta, colon, pancreas and ovary and is weakly expressed in breast. Defects in RAD51 are associated with breast cancer (BC).

Clone Number:

Isotype:

Species: Human

Storage and Stability: at -20°C

Storage buffer:

This antibody is stored in PBS, 0.01% sodium azide and 50% glycerol.

Preparation:

Purified by antigen-specific affinity chromatography.

Applications :

ELISA

Western Blotting (1µg/ml for 2hrs)

References

- Schmutte, C., et al, *Cancer Res.* 59 (18), 4564-4569 (1999)
- Benson, F.E., et al, *EMBO J.* 13 (23), 5764-5771 (1994)
- Golub, E.I., et al, *Nucleic Acids Res.* 25 (20), 4106-4110 (1997)
- Tanaka, K., et al, *J. Biol. Chem.* 275 (34), 26316-26321 (2000)
- Sigurdsson, S., et al, *J. Biol. Chem.* 277 (45), 42790-42794 (2002)
- Liu, N., et al, *Nucleic Acids Res.* 30 (4), 1009-1015 (2002)
- Lio, Y.C., et al, *J. Biol. Chem.* 278 (4), 2469-2478 (2003)
- Aihara, H., et al, *J. Mol. Biol.* 290 (2), 495-504 (1999)