

Product Data Sheet: RAD51

Cat. No: AB-83952
Size: 100 ug
Clone: POLY
Concentration: 1mg/ml
Host: Rb

Isotype:

Background:

Immunogen: A synthetic peptide corresponding to a sequence within amino acids 50-150 of

human RAD51

Reactivity: Hu, Ms, Rt

Applications: Western Blot: 1:500 -1:1000 Immunofluorescence: 1:50 -1:200

IaG

Molecular Weight: 37kDa **Purification:** Aff. Pur.

Synonyms: RAD51; BRCC5; FANCR; HRAD51; HsRad51; HsT16930; MRMV2; RAD51A; RECA;

RAD51 recombinase

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,

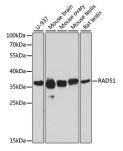
which may be important for the cellular response to DNA damage. BRCA2 is shown to regulate both the intracellular localization and DNA-binding ability of this protein. Loss of these controls following BRCA2 inactivation may be a key event leading to genomic instability and tumorigenesis. Multiple transcript

variants encoding different isoforms have been found for this gene.

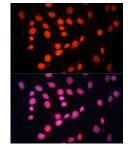
Form: Liquid

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

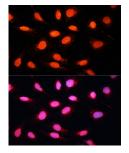
Storage: Store at -20°C. Avoid freeze / thaw cycles.



Western blot analysis of extracts of various cell lines, using RAD51 antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane.



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Immunofluorescence analysis of U2OS cells using RAD51 antibody at dilution of 1:100.

Blue: DAPI for nuclear staining.



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Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL West Pico Plus Exposure time: 30s.

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Detection: ECL West Pico Plus.

Exposure time: 30s.

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