

## RAD51

**Reactivity:** Human Mouse Rat

**Tested applications:** WB IHC IF IP FC

**Recommended Dilution:** WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:50 - 1:100 IP 1:50 - 1:100  
FC 1:50 - 1:200

**Calculated MW:** 37kDa

**Observed MW:** Refer to Figures

**Immunogen:**

A synthetic peptide of human RAD51

**Storage Buffer:**

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Concentration:**

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**Synonym:**

RECA; BRCC5; MRMV2; HRAD51; RAD51A; HsRad51; HsT16930;

**Catalog #:** A1386

**Antibody Type:**

Polyclonal Antibody

**Species:** Rabbit

**Gene ID:** 5888

**Isotype:** IgG

**Swiss Prot:** Q06609

**Purity:** Affinity purification

For research use only.

**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.

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