# Rad51 Rabbit mAb

Catalog No.: A2829 Recombinant 3 Publications



## **Basic Information**

#### **Observed MW**

37kDa

### **Calculated MW**

37kDa

## Category

Primary antibody

### **Applications**

WB, ELISA, ChIP

### **Cross-Reactivity**

Human, Mouse, Rat

#### CloneNo number

ARC0764

## **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.

## **Recommended Dilutions**

**WB** 1:500 - 1:2000

**ELISA** Recommended starting

concentration is 1 µg/mL.
Please optimize the
concentration based on
your specific assay
requirements.

**ChIP** 5μg antibody for 10μg-15μg of Chromatin

## Immunogen Information

**Gene ID**Swiss Prot
906609

### **Immunogen**

Synthetic peptide. This information is considered to be commercially sensitive.

### **Synonyms**

RECA; BRCC5; FANCR; MRMV2; HRAD51; RAD51A; HsRad51; HsT16930; Rad51

## **Contact**

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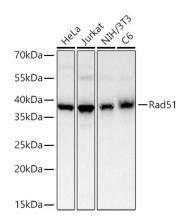
### **Product Information**

SourceIsotypePurificationRabbitIgGAffinity purification

#### Storage

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

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.



Western blot analysis of various lysates using Rad51 Rabbit mAb (A2829) at 1:1000 dilution incubated overnight at  $4^{\circ}$ C.

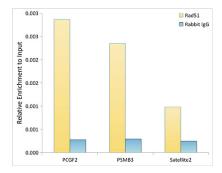
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25  $\mu g$  per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 45s.



Chromatin immunoprecipitation analysis of extracts of HepG2 cells, using Rad51 Rabbit mAb antibody (A2829) and rabbit IgG.The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.