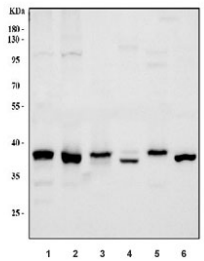
RAD51 Antibody (R31736)

Catalog No.	Formulation	Size
R31736	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
Gene ID	5888
Applications	Western blot: 0.5-1ug/ml
Limitations	This RAD51 antibody is available for research use only.



RAD51 Antibody Human Mouse Rat WB. Western blot analysis of RAD51 expression using a RAD51 antibody. Lane 1: human HeLa cell lysate. Lane 2: human K562 cell lysate. Lane 3: human Jurkat cell lysate. Lane 4: rat liver tissue lysate. Lane 5: rat C6 cell lysate. Lane 6: mouse liver tissue lysate. RAD51, also known as RAD51 Recombinase, is a central mediator of homologous recombination and DNA double strand break repair that preserves genomic stability. A prominent band is detected at approximately 37 kDa in all samples, consistent with the expected molecular weight of RAD51. These results demonstrate endogenous expression of this DNA repair protein across multiple cell types and species and support the utility of RAD51 Antibody for studies of DNA damage responses, genome maintenance, and cancer biology.

Description

DNA repair protein RAD51 homolog 1, also known as RAD51A, is a human gene. The Rad51 gene, HsRAD51, is a homolog of RecA of Escherichia coli and functions in recombination and DNA repair. BRCA1 and BRCA2 proteins form a complex with Rad51, and these genes are thought to participate in a common DNA damage response pathway associated with the activation of homologous recombination and double-strand break repair. It is 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.

Explore our RAD51 Antibody page for additional antibodies against RAD51 Recombinase, including IHC and Protein Microarray validated reagents for studies of homologous recombination, DNA damage responses, and genome stability.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the RAD51 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Human partial recombinant protein (AA 1-258) was used as the immunogen for this RAD51 antibody.

Storage

After reconstitution, the RAD51 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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