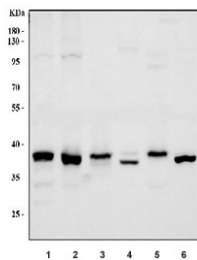


RAD51 Antibody (R31736)

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
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.



Western blot testing of 1) human HeLa, 2) human K562, 3) human Jurkat, 4) rat liver, 5) rat C6 and 6) mouse liver tissue lysate with RAD51 antibody. Expected molecular weight ~37 kDa.

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.

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.