

Anti-Rad51 (*S. cerevisiae*) antibody, rabbit serum、Chlp grade

BACKGROUND

S. cerevisiae Rad 51 protein (400 aa, 43 kDa) is a functional and structural homolog of *E.coli* RecA and human Rad51 proteins and plays a central role in DNA homologous recombination and recombination repair by promoting homologous DNA strand exchange reaction. Dmcl, Rad55, Rad57 are paralogs of Rad51 and they form complex with Rad51 and Rad52 in mediating recombination processes (1, 2).

The product was prepared by immunizing rabbit with the full size recombinant *S.cerevisiae* Rad 51 protein expressed in *E. coli* and purified. Using this anti-serum, Rad 51 protein of 43 kD was detected by Western blotting in the wild type cell extract but not detected in rad51 deletion strain extract (Fig 1).

Applications

- 1) Western blotting (1/2,000~1/10,000 dilution) (Fig. 1)
- 2) Immunoprecipitation.
- 3) Chromatin Immunoprecipitation
- 4) Immunofluorescence staining

Specification

Form: Whole antiserum added with 0.09 % sodium azide

Size: 250 ul

Reactivity: *S.cerevisiae* Rad 51 protein

Storage: Sent at 4°C and upon arrival centrifuge briefly, aliquot and store at -20°C



Data Link SGD [RAD51/YER095W](https://www.yeastgenome.org/locus/RAD51/YER095W)

UniProtKB/Swiss-Prot :

[P25454](https://www.uniprot.org/entry/P25454) [RAD51 - Saccharomyces cerevisiae](https://www.uniprot.org/entry/P25454)

References: This antibody was used in the following publication.

Ribeyre C, Shore D. (2012) Anticheckpoint pathways at telomeres *Nat Struct Mol Biol.* 19 : 307-13 [PMID: 22343724](https://pubmed.ncbi.nlm.nih.gov/22343724/)

Fig.1 Western blotting of the crude cell extract of *S. cerevisiae* wild-type strain (left lane) and Rad51 deletion mutant (right lane) using this antibody.