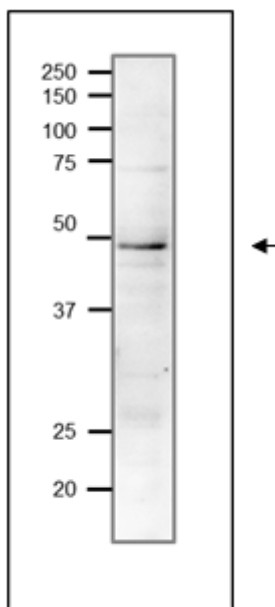


**Anti-Rad51 (*S. cerevisiae*) antibody, rabbit polyclonal, ChIp grade**

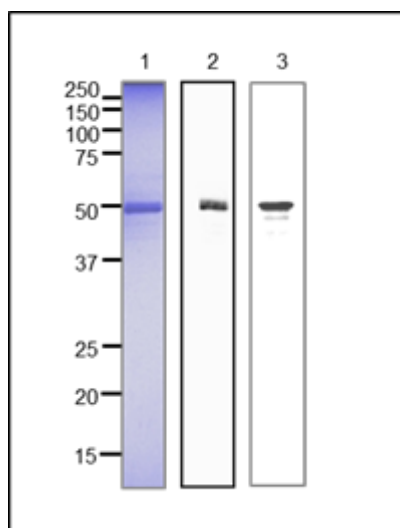
<b>Product code</b>	62-101
<b>Size</b>	100 µg
<b>Storage</b>	-20°C
<b>Concentration</b>	1.0 mg/ml
<b>Buffer</b>	PBS <sup>-</sup> with 50% glycerol
<b>Purity</b>	Affinity-purified with immunogen.
<b>Immunogen</b>	Purified recombinant His-tagged Sc Rad51 protein (full-size)
<b>Isotype</b>	N/A
<b>Reactivity</b>	<i>S.cerevisiae</i>
<b>Validation</b>	<i>S.cerevisiae</i> Rad 51 protein. The specificity of reaction was confirmed with rad51 mutant by WB (Fig.1)
<b>Application</b>	<ol style="list-style-type: none"> <li>1. Western blotting (1/500~1/2,000 dilution)</li> <li>2. Immunoprecipitation</li> <li>3. Chromatin Immuno-Precipitation (Assay dependent)</li> <li>4. Immunofluorescence staining</li> <li>5. ELISA</li> </ol>
<b>Background</b>	<p><i>S. cerevisiae</i> Rad 51 protein (400 aa, 43 kDa) is a functional and structural homolog of <i>E.coli</i> 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</p>
<b>Data Link</b>	UniProtKB <a href="#">P25454</a> (RAD51_Saccharomyces cerevisiae)
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.	

**Data Images:** 62-101 Anti-Rad51 (*S. cerevisiae*) antibody, rabbit polyclonal



**Fig.1 Western blot of endogenous Rad51 protein in crude extract of *S. cerevisiae*.**

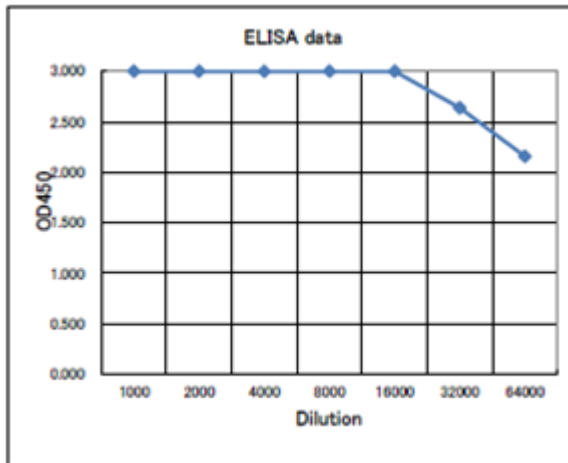
Proteins in the extract were separated on 12.5% SDS-PAGE and transferred to membrane in wet system overnight. The antibody was used at 1/1,000 dilution. As 2nd antibody, HRP conjugated goat anti-rabbit IgG antibody was used at 1/10,000 dilution.



**Fig.2 Western blot of recombinant scRad51 protein and yeast crude extract.**

1. Recombinant Rad51 protein as analyzed by SDS-PAGE
2. Western blot of recombinant scRad51 protein (10 ng)
3. Western blot of crude extract of *S. cerevisiae* strain BY4741.

For Western blot, anti-scRad51 antibody was used at 1/1,000 dilution.



**Fig.3 Titration of antibody reactivity of anti-Rad51 antibody by ELISA**

Plate was coated with 100 µg of recombinant Rad51 protein (*S. cerevisiae*) per well and 100 µl of the antiserum at the indicated dilution was added to each well and incubated. After washing, goat anti-rabbit-IgG conjugated with HRP was added as 2nd antibody. Color was developed with TMB as substrate

**References:** This antibody was used in the following publications.

1. Ribeyre C, Shore D. Anticheckpoint pathways at telomeres  
Nat Struct Mol Biol. 2012;2.19 : 307-13 [PMID 22343724](#) **ChIP (*S. cerevisiae*)**
2. Muramoto N et al. Phenotypic diversification by enhanced genome restructuring after induction of multiple DNA double-strand breaks. [Nat Commun.](#) 2018 May 18;9(1):1995. PMID:29777105. **IF (*S. cerevisiae*)**