Anti- Rhp55 (*rad homolog pombe 55*) antibody, rabbit serum

Product code	63-005
Size	50 µl
Storage	Store at 4℃ for short term. For long term storage store at -20℃. Aliquot to avoid repeated freezing and thawing.
Concentration	N/A
Buffer	0.1% sodium azide
Purity	Rabbit antiserum
Immunogen	Recombinant His6-tagged Rhp55 protein expressed in *E.coli*.
Isotype	Rabbit IgG
Reactivity	*S. pombe* Rhp55p
Special notes	N/A
Application	1. Western blotting (1/1000) Fig.1 Other applications have not tested.
Background	Rhp55 protein is encoded by *rhp55*$^{+}$ from *S. pombe* with homology to RecA and showed highest similarity to *S. cerevisiae* Rad55p. Rhp55p acts in one DSB repair pathway with Rhp51 and Rhp54 proteins. Rhp55p is important for recombinational DNA repair of exogenously induced DNA damage by MMS, UV, and IR. Moreover, Rhp55p is required for genomic stability, efficient sporulation, and full meiotic recombination in fission yeast. *S. pombe rhp57*$^{+}$ is also a homolog of *S. cerevisiae RAD57* and encodes a protein with structural similarity to RecA. Rhp55 and Rhp57 proteins strongly interact *in vivo*, form a complex equivalent to the *S. cerevisiae* Rad55p-Rad57p heterodimer, which functions as a mediator, aiding in the early step of HR by helping to stabilize Rad51 loading onto single-stranded DNA.
Data Link	UniProtKB O14129 (Rad55_SCHPO)

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Data Images: 63-005 Anti-Rhp55 (*S. pombe*) antibody, rabbit serum

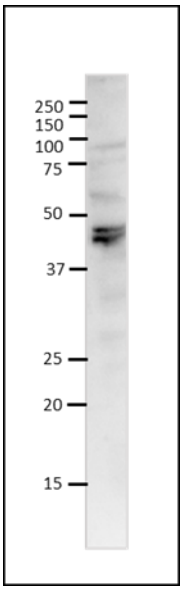

Fig.1 Western blot of MP111 (*S.pombe*) whole cell lysate

20 μg of MP111 whole cell lysate was run on SDS-PAGE (12.5 % gel).

Anti-Rhp55 antibody was used at 1/1000 dilutions.

Second antibody (goat anti-rabbit IgG antibody, HRP-conjugated, ab205718(Abcam) was used at 1/10,000 dilution.

Reference: Anti-Rhp55 was described in the following article.

Tsutsui Y *et al.* Multiple interactions among the components of the recombinational DNA repair system in *Schizosaccharomyces pombe*. Genetics. 159(1):91-105 (2001)

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