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

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| **Product code** | 63-505 |
| **Size** | 50 µg |
| **Storage** | -20℃ |
| **Concentration** | 1mg/ml |
| **Buffer** | PBS- with 50 % glycerol |
| **Purity** | Purified IgG fraction with protein A from rabbit antiserum (63-005). |
| **Immunogen** | Recombinant His6-tagged Rhp55 protein expressed in *E.coli*. |
| **Isotype** | Rabbit IgG |
| **Reactivity** | *S. pombe* Rhp55p |
| **Special notes** | Purified from rabbit antiserum (63-005) |
| **Application** | 1. Western blotting (1/1000) Fig.1<br>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) |
| **Related Products** | 63-005 Anti-Rhp55 (*S. pombe*) antibody, rabbit serum |

Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.



BioAcademia,Inc. Tel. 81-6-6877-2335 Fax. 81-6-6877-2336 info@bioacademia.co.jp https://www.bioacademia.co.jp/en/

**Data Images:** 63-505 Anti-Rhp55 (*S. pombe*) antibody, rabbit polyclonal

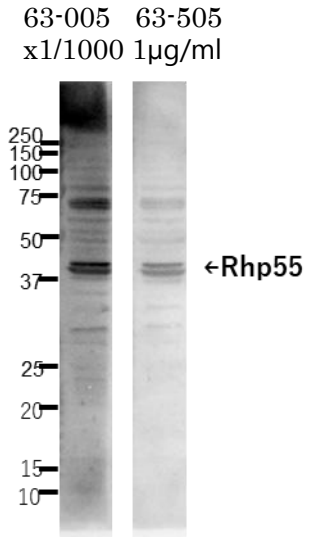



**Fig.1 Western blot of MP111 (*S.pombe*) whole cell lysate**

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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