

## Anti-Cut15 (*S. pombe*) antibody, rabbit serum

63-113 100 µl

**Shipping and Storage:** Shipped at 4°C or -20°C and store at -20°C.

**Immunogen:** Purified recombinant GST-fusion protein with full-length Cut15 protein expressed in *E.coli*.

**Form:** Rabbit antiserum added with 0.05 % sodium azide

**Reactivity:** Reacts with *S. pombe* Cut15 protein. Not tested in other species.

### Applications:

1. Western blotting (100~1,000 fold dilution)

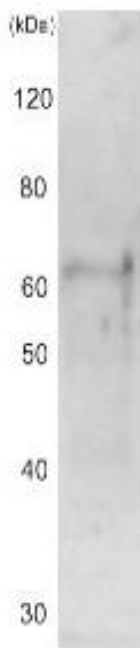
Not tested for other applications

**Background:** *S. pombe* **Cut15** protein (542 aa, 60.4 kDa) is an essential component for replication and also for the damage response and checkpoint control which couples S and M phases (Ref 1,2). It interacts with importin alpha (Imp1p), which together functions in nucleocytoplasmic transport and cell cycle progression. It contains 4 BRCT domains.

**Data Link:** UniProtKB/Swiss-Prot [O14063](#) (IMAI\_SCHPO)

**References:** This antibody has been used in the following references

1. Matsusaka T. et al (1998) Mutations in fission yeast Cut15, an importin alpha homolog, lead to mitotic progression without chromosome condensation. *Curr Biol.* 8:1031-4. PMID: [9740803](#)
2. Umeda M. et al. (2005) The fission yeast *Schizosaccharomyces pombe* has two importin-alpha proteins, Imp1p and Cut15p, which have common and unique functions in nucleocytoplasmic transport and cell cycle progression. *Genetics.* 171:7-21. PMID: [15937127](#)



**Figure. Identification of Cut15 protein in the crude extracts of *S. pombe* by Western blotting.**

Samples were prepared by alkali-lysis of the cells by TCA precipitation of protein. *S. pombe* lysate 10 µg. Antibody, 1,000 dilution. Cut15 protein was identified at ~60 kDa position.