Anti-Cut5 / Rad4 (*S. pombe*) antibody, rabbit serum

Product code	63-107
Size	100 µl
Storage	Store 4℃ for short term For long term storage store at -20℃. Aliquot to avoid repeated freezing and thawing.
Concentration	N/A
Buffer	0.05% sodium azide
Purity	Rabbit antiserum
Immunogen	Recombinant GST-fusion protein with the N-terminal half of Cut5 protein
Isotype	Rabbit IgG
Reactivity	*S. pombe* Cut5/Rad4 protein. Not tested for other species.
Special notes	N/A
Application	1. Western blotting (500 fold dilution) Not tested for other applications
Background	Cut5/Rad4/Dre3 protein is an essential component for DNA replication and also for the damage and checkpoint control which couples S and M phases (1, 2). It interacts with chromatin proteins to form the complex required for the initiation and progression of DNA synthesis. It contains 4 BRCT domains and the molecular mass is 74.1 kDa with 648 amino acids.
Data Link	UniProtKB P32372 (RAD4_SCHPO)

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Data Images: 63-107 Anti-Cut5 / Rad4 (*S. pombe*) antibody, rabbit serum

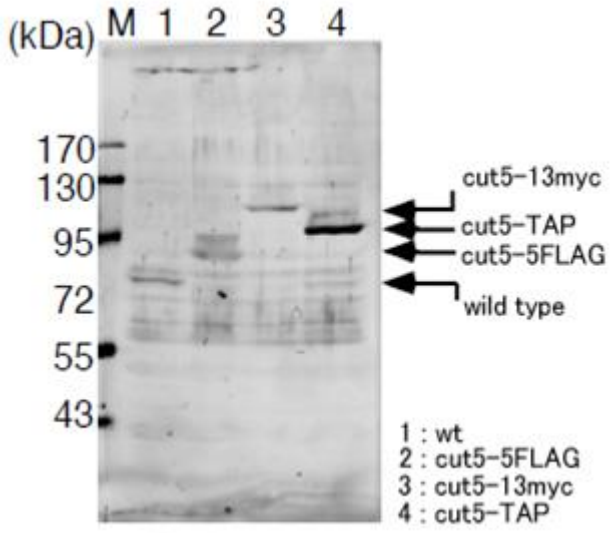

Fig.1 Identification of the Cut5/Rad4 protein in the crude extract of *S. pombe* with this antibody.
Samples were prepared by alkali-lysis of the cells followed by TCA precipitation of proteins.
Lane M: Size markers (kDa)
Lane 1: Wild-type cells
Lane 2: The cut5-5Flag gene replacing the wild-type cut5 gene
Lane 3: The cut5-13myc gene replacing the wild type gene
Lane 4: The cut-TAP gene replacing the wild-type gene
* Cut5 protein is known to be sensitive for protease digestion in the C-terminal region. The native and the degradation products are observed as described in Ref.2

References: This product has been used in the following publications.

1. Saka Y *et al* "Damage and replication checkpoint control in fission yeast is ensured by interactions of Crb2, a protein with BRCT motif, with Cut5 and Chk1" *Genes Dev* 11:3387-3400 (1997) PMID: 9407031
2. Saka Y *et al* "Fission yeast cut5 links nuclear chromatin and M phase regulator in the replication checkpoint control" *EMBO J* 13:5319-5329 (1994) PMID: 7957098

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