



POLYCLONAL ANTIBODY

For research use only. Not for clinical diagnosis.

Catalog No. BAM-63-107-EX

Anti-Cut5/Rad4 (*S. pombe*)

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.

Product type	Primary antibodies
Host	Rabbit
Source	Serum
Form	Liquid
Volume	Rabbit antiserum added with 0.05 % sodium azide
Concentration	100 µl
Specificity	
Antigen	Recombinant GST-fusion protein with the N-terminal half of Cut5 protein
Isotype	

Application notes WB Not tested for other applications

Recommended use

Recommended dilutions

Western blotting: 500 fold dilution

Optimal dilutions/concentrations should be determined by the end user.

Data Link: UniProtKB/Swiss-Prot [P32372](#) (RAD4_SCHPO)

Staining Pattern

Cross reactivity Reacts with *S. pombe* Cut5/Rad4 protein. Not tested for other species

Storage -20°C (for long period; -70°C)

References

(This antibody was used in the following references.)

- 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](#)

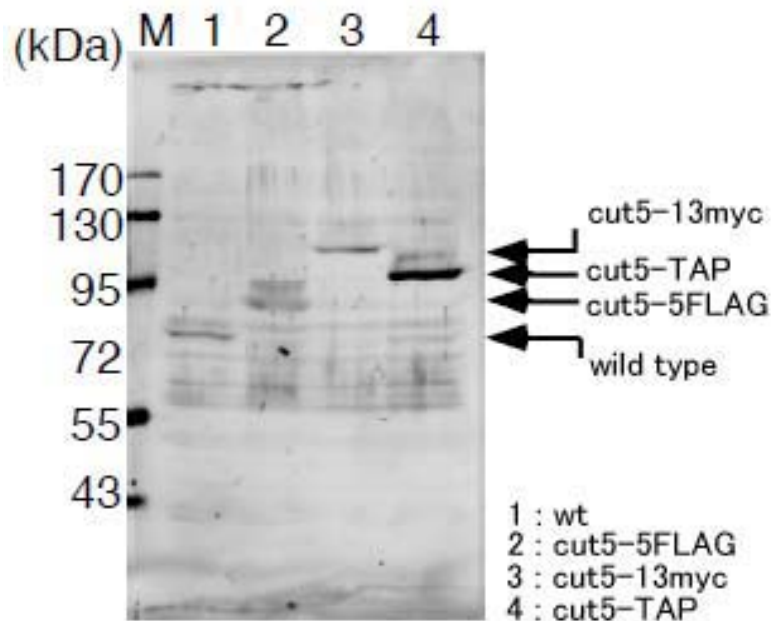


Figure Identification of the Cut5/Rad4 protein in the crude extract of *S. pombe* with this antibody.

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

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