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Inspiration for Life Science

POLYCLONAL ANTIBODY

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Catalog No. 63-107EX

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

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 (Ref.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	Rabbit polyclonal antibody affinity purified with recombinant Rpn7p
Host	Rabbit
Source	
Form	Rabbit antiserum added with 0.05 % sodium azide
Volume	100 μL
Concentration	
Specificity	
Antigen	Recombinant GST-fusion protein with the N-terminal half of Cut5 protein

Application notes	1. Western blotting (500 fold dilution) Not tested for other applications
Reactivity	Reacts with *S. pombe* Cut5/Rad4 protein. Not tested for other species Optimal dilutions/concentrations should be determined by the end user.
Data Link	Swiss-Prot **P32372**
Storage	Shipped at 4℃ and store at -20 ℃
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

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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)

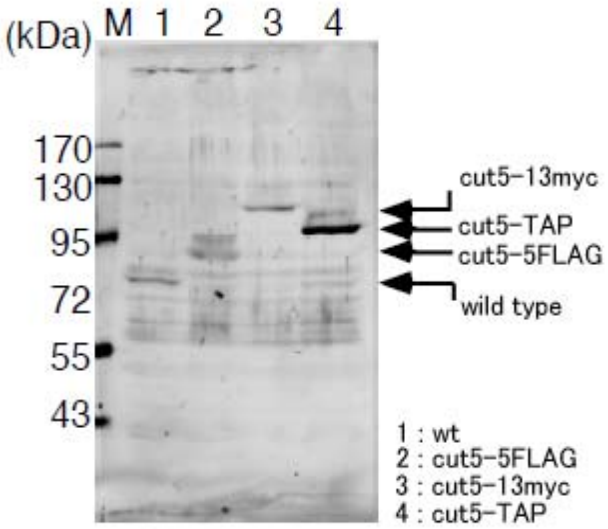
Lane 1: Wild-type cells

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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