

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

63-107 100 μl

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

Immunogen: Recombinant GST-fusion protein with the N-terminal half of Cut5 protein

Form: Rabbit antiserum added with 0.05 % sodium azide

Reactivity: Reacts with S. pombe Cut5/Rad4 protein. Not tested for other species

Applications

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/Swiss-Prot P32372 (RAD4_SCHPO)

References: This antibody was used in the following references.

- 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
- Saka Y et al "Fission yeast cut5 links nuclear chromatin and M phase regulator in the replication checkpoint control" EMBO J13:5319-5329 (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

