



## Anti-Cut5/Rad4

### 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 DNA synthesis. It contains 4 BRCT domains and the molecular mass is 74.1 kDa with 648 amino acids.

<b>Product type</b>	Primary antibodies
<b>Host</b>	Rabbit
<b>Source</b>	Serum
<b>Form</b>	Liquid
	Rabbit antiserum added with 0.05 % sodium azide
<b>Volume</b>	100ul
<b>Concentration</b>	
<b>Specificity</b>	Reacts with <i>S. pombe</i> Cut5/Rad4 protein.
<b>Antigen</b>	Recombinant GST-fused with the N-terminal half of Cut5 protein.
<b>Clone</b>	
<b>Isotype</b>	

**Application notes** WB, Not tested for other application

### Recommended use

### Recommended dilutions

Western Blotting: ~1/ 500

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

### Staining Pattern

**Cross reactivity** Not tested with other species

**Storage** -20 °C (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 (1997)

2) Saka Y. et al. Fission yeast cut5 links nuclear chromatin and M phase regulation in the replication checkpoint control. *EMBO J.* 13:5319 (1994)

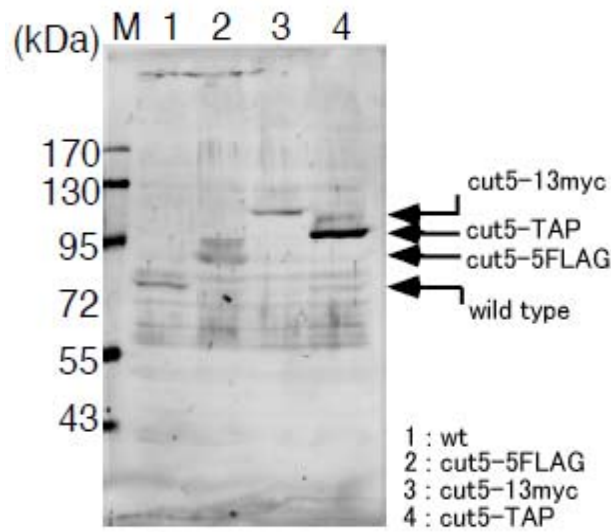


Figure Identification of the Cut5/Rad4 protein in the crude extract of *S. pombe* with this antibody.

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 to protease digestion in the C-terminal region and the native and the degradation products are observed as described in Ref.2

*For research use only. Not for clinical diagnosis.*

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