Anti-Dis3 (*S. pombe*) antibody, rabbit serum

Product code	63-123
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 truncated Dis3 protein (70 kDa)
Isotype	Rabbit IgG
Reactivity	*S. pombe* Dis3 protein. Not tested for other species.
Special notes	N/A
Application	1. Western blotting (1/100-1/300) 2. Immunofluorescence staining
Background	*S. pombe* **Dis3** protein is an essential component for mitotic segregation (ref.1). It is a component of the exosome 3'->5' exoribonuclease complex. It is required for the 3'-processing of the 7S pre-RNA to the mature nuclear complex. It is also associated with the GTPase Ran and has a 3'-5' exonuclease activity. It is composed of 970 amino acids with molecular mass of 110 kDa. It is highly conserved functionally and structurally from yeast to human.
Data Link	UniProtKB P37202 (DIS3_SCHPO)

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Data Images: 63-123 Anti-Dis3 (*S. pombe*) antibody, rabbit serum

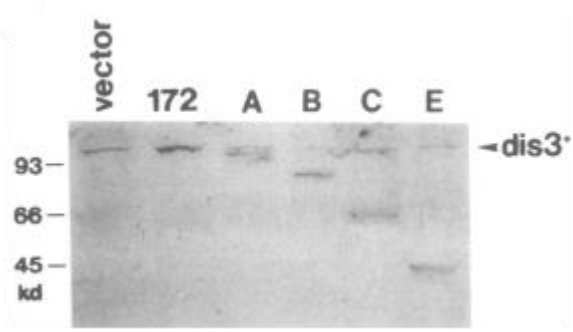

Fig.1 Western blotting analysis

Immunoblotting of extracts of *S. pombe* cells transformed with the vector or plasmids carrying truncated genes (172, A, B, C, E) with anti-Dis3 antibodies. Polypeptides of expected molecular masses were detected (ref.1).

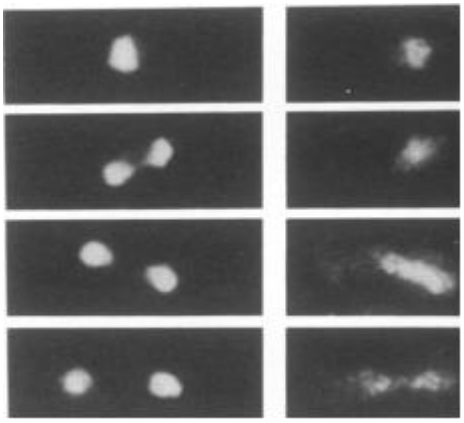

Fig.2 Localization of the dis3+ gene product by immunofluorescence microscopy.

S. pombe cells were fixed and prepared for immunofluorescence microscopy with anti-dis3 antibodies. Left, DAPI stain for chromosomal DNA. Right, anti-Dis3 antibody stain (ref.1).

References: This antibody was used in the following references.

1. Kinoshita N., Goebl M., Yanagida M. **"The fission yeast dis3+ gene encodes a 110-kDa essential protein implicated in mitotic control."** *Mol. Cell. Biol.* **11**:5839-5847(1991) [PubMed: 1944266]
2. Noguchi E. *et al.* "**Dis3, implicated in mitotic control, binds directly to Ran and enhances the GEF activity of RCC1.**" *EMBO J.* **15**:5595-5605(1996) [PubMed: 8896453]

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