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

Product code	63-516
Size	100 µg
Storage	-20℃
Concentration	1mg/ml
Buffer	PBS- with 50% glycerol
Purity	Purified IgG fraction with protein A from rabbit antiserum (63-123).
Immunogen	Recombinant truncated Dis3 protein (70 kDa)
Isotype	Rabbit IgG
Reactivity	*S. pombe* Dis3 protein. Not tested for other species.
Special notes	Purified from rabbit antiserum (63-123)
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)
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]
Related Products	63-123 Anti-Dis3 (*S. pombe*) antibody, rabbit serum

Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.

BioAcademia,Inc. Tel. 81-6-6877-2335 Fax. 81-6-6877-2336 info@bioacademia.co.jp https://www.bioacademia.co.jp/en/

Data Images: 63-516 Anti-Dis3 (*S. pombe*) antibody, rabbit polyclonal

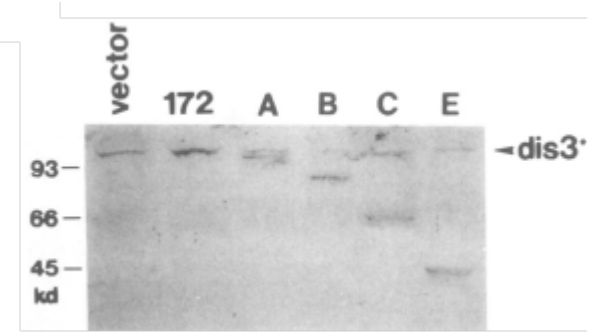


Fig.1 Western blotting analysis

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).

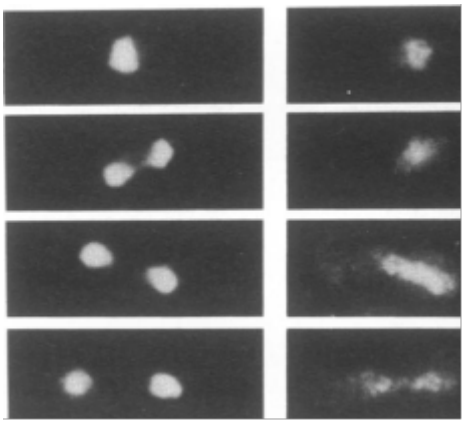


Fig.2 Localization of the dis3+ gene product by immunofluorescence microscopy.

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).

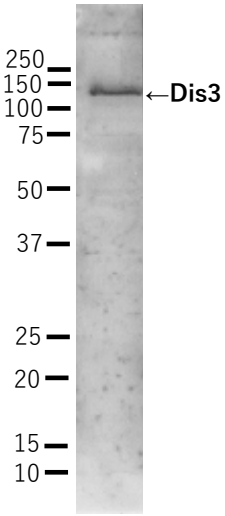


Fig.1 Identification of Dis3 protein in the crude extracts of *S. pombe* by Western blotting.

Samples *S. pombe* clude extract 20 µg.

Primary antibody were used at 5 µg/ml of 63-516

Dis3 (S.pombe) protein was identified at 110 kDa position.

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