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

63-123　100 µl

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.

Applications:

1. Western blotting (100~300 fold dilution)　2. Immunofluorescence staining

Immunogen: Recombinant truncated Dis3 protein (70 kDa)

Specificity: Reacts with S. pombe Dis3 protein. Not tested for other species.

Form: Rabbit antiserum added with　0.05 % sodium azide, 50% glycerol

Storage: Shipped at 4℃ or -20℃, and upon arrival, aliquot and store at -20℃.

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]

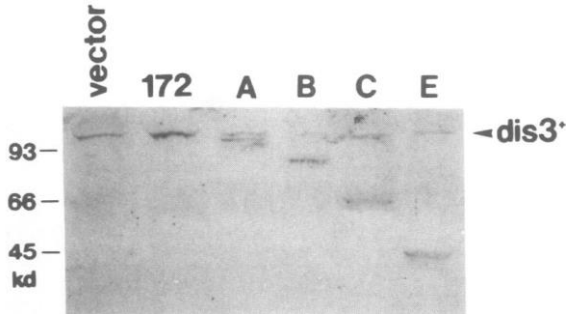

Fig.1　Immunoblotting of extracts of *S. pombe* cells transformed with the vector or plasmids carrying truncated genes (172, A, B, C, E) with anti-Dis3 antibodies. Polypeptides of expected molecular masses were detected (ref.1).

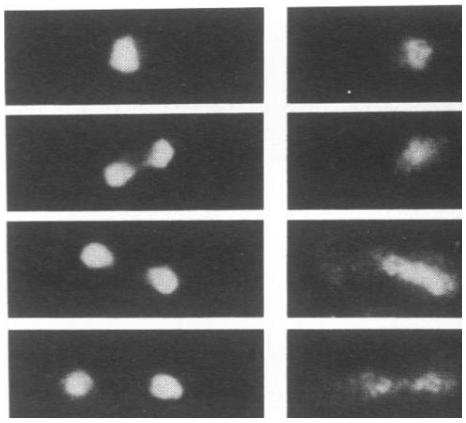

Fig.2　Localization of the *dis3*+ gene product by immunofluorescence microscopy. *S. pombe* cells were fixed and prepared for immunofluorescence microscopy with anti-dis3 antibodies. Left, DAPI stain for chromosomal DNA.　Right, anti-Dis3 antibody stain (ref.1).

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