

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

63-123 (200 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

Specification

Immunogen: Recombinant truncated Dis3 protein (70 kDa)

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

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

Storage: Shipped at 4°C or -20°C, upon arrival aliquot and store at -20°C

Reference

1. Kinoshita N "The fission yeast *dis3+* gene encodes a 110-kDa essential protein implicated in mitotic control" *Mol Cell Biol* 11:5839-5847(1991) PMID: [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) PMID: [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).

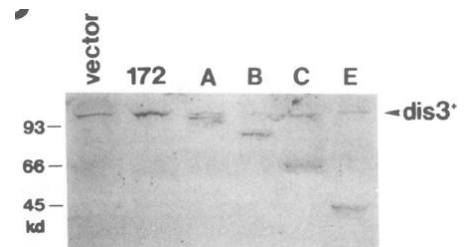


Fig.2 Localization of the *dis3*⁺ gene product by immunofluorescence microscopy. *S. pombe* cells were fixed and prepared for immunofluorescence microscopy with anti-*dis3* antibodies. Left, DAPI stain for chromosomal DNA. Right, anti-*dis3* antibody stain (ref.1).

