Anti-Dis2 (*S. pombe*) antibody (D2F), rabbit serum

Product code	63-119
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 *S. pombe* full-length Dis2 (Ref.1)
Isotype	Rabbit IgG
Reactivity	Dis2 and does not cross-react with Sds21
Special notes	N/A
Application	1. Western blotting (1/300-1/1000) 2. Immunoprecipitation
Background	*Schizosaccharomyces pombe* **Dis2** is a serine/threonine protein phosphatase which is highly similar to mammalian type 1 phosphatase (PP1). Protein phosphatases are known to play critical roles in cell cycle regulation in fission yeast. Fission yeast has two type 1 protein phosphatases, **Dis 2** and Sds21. They are 37 kDa proteins and their amino acid sequences are 80% identical to each other and to mammalian PP1 homologs. **Dis 2** and Sds21 are necessary for mitotic chromosome disjunction and have overlapping functions. Their disruptants are lethal only when both genes are disrupted. **Dis 2** is known to be enriched in nuclei.
Data Link	UniProtKB P13681

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

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Data Images: 63-119 Anti-Dis2 (*S. pombe*) antibody (D2F), rabbit serum

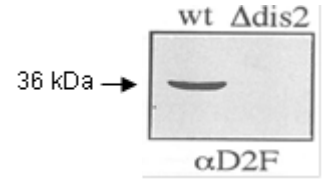

Fig.1 Immunoblot of wild-type and □dis2 *S.pombe* cells using anti-dis2 antibody, αD2F
wt: wild type
Δdis2: dis2 deletion mutant

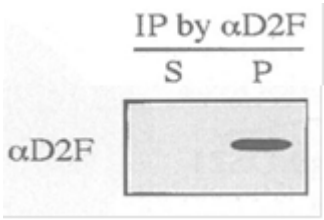

Fig.2 Immunoprecipitation of wild-type S. pombe extracts was performed using anti-dis2 antibody, D2F.
Resulting immunoprecipitate (P) and supernatant (S) were immunoblotted by anti-dis2 antibody.

References: This antibody has been used in Ref. 1, 2 and 3.

1. Stone EM *et al.* Mitotic regulation of protein phosphatases by the fission yeast sds22 protein. *Curr Biol* **3**: 13-26 (1993) PMID: 15335873 **WB (S. pombe)**

2. Yamano H *et al.* Phosphorylation of dis2 protein phosphatase at the C-terminal cdc2 consensus and its potential role in cell cycle regulation. *EMBO J.* **13**:5310-5318 (1994) PMID: 7957097 **WB**

3. Ishii K *et al.* Requirement for PP1 phosphatase and 20S cyclosome/APC for the onset of anaphase is lessened by the dosage increase of a novel gene *sds23*$^{+}$. *EMBO J.* **15**:6629-6640 (1996) PMID: 8978689. **WB, IP (S. pombe)**

4. Swaffer MP *et al.* CDK Substrate Phosphorylation and Ordering the Cell Cycle. Cell. 2016 Dec 15;167(7):1750-1761. PMID: 27984725 **WB (S. pombe)**

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