

## Anti-Sds23 (*S. pombe*) antibody, rabbit serum

63-143 100  $\mu$ l

*Schizosaccharomyces pombe* **Sds23** protein functions to facilitate the progression in anaphase in mitotic cell cycle. For initiating anaphase in fission yeast, PP1 (protein phosphatase 1) and 20S cyclosome/APC are required. The **sds23** gene is a multicopy suppressor for mutations in PP1 and the 20S cyclosome/APC, implying that the gene dosage increase can relieve the requirement for PP1 and the cyclosome/APC for the onset of anaphase. It encodes a 408 aa product and appears to be conserved. The **sds23** gene is not essential for cell viability, but in the **sds23** deletion mutant, the progression of anaphase and cytokinesis are retarded and cell shape is aberrant. Therefore **Sds23** protein appears to be involved in progression in anaphase as well as in cytokinesis and cell shape control. **Sds23** is neither physically bound to PP1 nor a subunit of the cyclosome. It may regulate the PP1 and 20S cyclosome/APC in an unknown fashion.

### Applications:

1. Western blotting (~ 1/500 dilution)

Other applications were not tested

**Immunogen:** Recombinant *S. pombe* Sds23 corresponding to amino acids 98-345

**Specificity:** Reacts with *S. pombe* Sds23 protein

**Form:** Rabbit antiserum added with 0.05% sodium azide

**Storage:** Shipped at 4°C and store at -20°C or below

**Data Link:** Swiss-Prot [Q09826](#)

**Reference:** This antibody was used in the following reference.

1. 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](#)

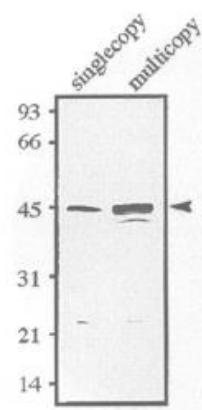


Fig.1 Identification of Sds23 protein.

Extracts of wild-type and wild-type carrying *psds23* were made and immunoblotted using anti-Sds23 antibodies.



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