

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

# 63-143 100 µl

*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 blot ~ 1/500 dilution
- Other applications were not tested

### Specifications

Immunogen: Recombinant *S. pombe* Sds23 corresponding to amino acids 98-345  
Specificity: Reacts with *S. pombe* Sds23 protein  
Form: Rabbit antiserum with 0.05% sodium azide  
Storage: Shipped at 4°C and long term storage -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<sup>+</sup>*." *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.

