

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

63-143 200 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. The *sds23* gene 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 is 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 possibly regulates the PP1 and 20S cyclosome/APC in an unknown fashion.

**Applications:**

1. Immunoblotting (dilution: 1/500)
2. Immunoprecipitation

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

**Specificity:** Specific to *S. pombe*

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

**Storage:** Shipped at 4°C and stored at -20°C

**Data Link:** Swiss-Prot [Q09826](http://www.uniprot.org/entry/Q09826)

**Reference:** This antibody has been 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](https://pubmed.ncbi.nlm.nih.gov/8978689/)

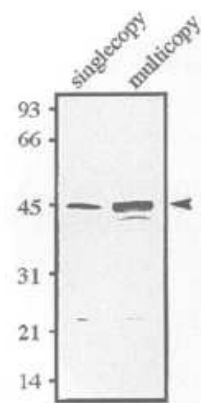


Fig.1 Identification of Sds23 protein (ref.1).

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

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