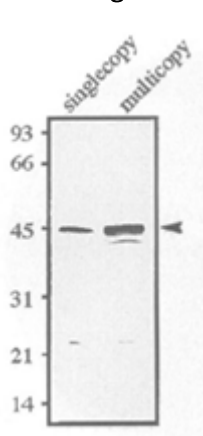


## Anti-Sds23 (*S. pombe*) antibody, rabbit serum

<b>Product code</b>	63-143
<b>Size</b>	100 µl
<b>Storage</b>	Store 4°C for short term For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
<b>Concentration</b>	N/A
<b>Buffer</b>	0.05% sodium azide
<b>Purity</b>	Rabbit antiserum
<b>Immunogen</b>	Recombinant <i>S. pombe</i> Sds23 corresponding to amino acids 98-345
<b>Isotype</b>	Rabbit IgG
<b>Reactivity</b>	<i>S. pombe</i> Sds23
<b>Special notes</b>	N/A
<b>Application</b>	1. Western blotting (~ 1/500 dilution) Other applications were not tested
<b>Background</b>	<i>Schizosaccharomyces pombe</i> <b>Sds23</b> 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 <i>sds23</i> 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 <i>sds23</i> gene is not essential for cell viability, but in the <i>sds23</i> deletion mutant, the progression of anaphase and cytokinesis are retarded and cell shape is aberrant. Therefore <b>Sds23</b> protein appears to be involved in progression in anaphase as well as in cytokinesis and cell shape control. <b>Sds23</b> 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.
<b>Data Link</b>	UniProtKB <a href="https://www.uniprot.org/entry/Q09826">Q09826</a> (SDS23_SCHPO)
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.	

**Data Images:** 63-143 Anti-Sds23 (*S. pombe*) antibody, rabbit serum



**Fig.1 Identification of Sds23 protein.**

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

**References:** 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](https://pubmed.ncbi.nlm.nih.gov/8978689/)