Anti-Swi6 (*S. pombe*) antibody, rabbit polyclonal

Product code	63-511
Size	100 µg
Storage	-20℃
Concentration	1mg/ml
Buffer	PBS- with 50 % glycerol
Purity	Purified IgG fraction with protein A from rabbit antiserum (63-101).
Immunogen	Recombinant full length protein corresponding to *S. pombe* Swi6 aa 1-328
Isotype	Rabbit IgG
Reactivity	Mouse. Not tested with other species.
Special notes	Purified from rabbit antiserum (63-101)
Application	1. Western blotting (x 2,000~10,000 dilution) (Figure) Background noise was reduced with diluted antibody 2. Immunoprecipitation 3. Immunoflorescent staining 4. Chromatin Immuno-Precipitation
Background	Swi6 protein of fission yeast is a functional and structural homolog of HP1 (Heterochromatin Protein 1) of animals and is involved in the formation of heterochromatin structure by binding to centromere, telomere and silent mating-type locus. It is also involved in silencing the genes and sister chromatid cohesion by binding to histone H3 methylated at Lys9 and the cohesin subunit Psc3.
Data Link	UniProtKB P40381 (SWI6_SCHPO)
Related Products	63-101 Anti-Swi6 (*S. pombe*) antibody, rabbit serum

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: 63-511 Anti-Swi6 (S. pombe) antibody, rabbit polyclonal

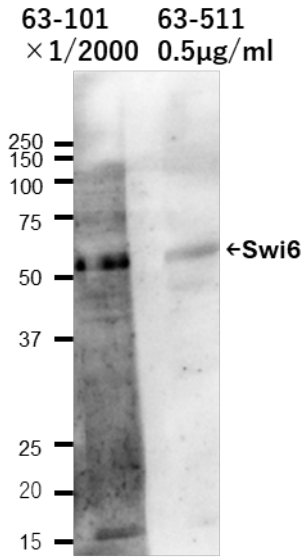


Fig.1 Detection of endogenous Swi6 protein by Western blotting

Sample: Crude extract of *S. pombe* at log phase (20μg)

The Swi6 protein migrates slower than the calculated molecular mass of 37 kDa.

The antibody was used at 1/2,000 dilution.

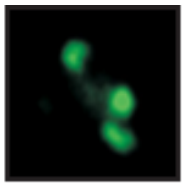


Fig.2 Immunofliorescent staining of Swi6 protin of *S. pombe* cells.

Cells at log phase were fixed with 3 % paraformaldehyde and permeabilized with Zymolyase before treatment with the antibody.

References: This antibody has been used in the following publications.

1. Carlsten JO et al. Mediator promotes CENP-a incorporation at fission yeast centromeres. Mol Cell Biol. 2012 Oct;32(19):4035-43. PMID: 22851695 **ChIP (*S.pombe*)**
2. Sato H et al. Epigenetic inactivation and subsequent heterochromatinization of a centromere stabilize dicentric chromosomes. Curr Biol. 2012 Apr 24;22(8):658-67. PMID: 22464190.**ChIP (*S. pombe*)**

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