

Anti-Swi6 (*S. pombe*) antibody, rabbit serum, ChIp grade

63-101 50 ul

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 (Ref. 1).

This antiserum was produced by immunizing full-size Swi6 recombinant protein from *E. coli*. Although genome data indicate the swi6 gene encodes a protein of 37 kD, Western blot analysis of crude extract of *S. pombe* detects a protein with an apparent molecular size of 53 kD (Figure and Ref. 2 & 3).

Applications For the studies of RNAi mechanism

1. Western blotting (x 2,000~10,000 dilution) (Figure) Background noise was reduced with diluted antibody
2. Immunoprecipitation
3. Chromatin Immuno-Precipitation

Specification

Form: Undiluted antiserum added with 0.09% sodium azide

Reactivity: Swi6 protein of *S. pombe*

Storage : Shipped at 4°C or -20°C, and upon arrival, aliquot and store at -20°C.

Data Link UniProtKB/Swiss-Prot [P40381](#) (SWI6_SCHPO)

References

1. Yao MC *et al* "Programmed DNA deletion as an RNA-guided system of genome defense" *Science* **300**:1581-1854 (2003) PMID: [12791996](#)
2. Ekwall K *et al* "The chromodomain protein Swi6: a key component at fission yeast centromeres" *Science* **269**:1429-1431 (1995) PMID: [7660126](#)
3. Wang G *et al* "Conservation of heterochromatin protein 1 function" *Mol Cell Biol* **20**:6970-6983 (2000) PMID: [10958692](#)

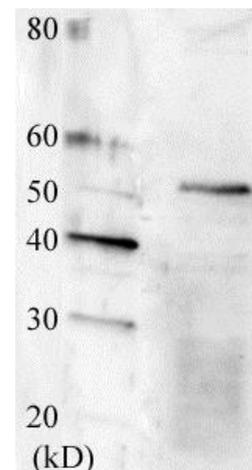


Fig.1 Detection of Swi6 protein by Western blotting using this antibody.