

anti-Psm1 (*S. pombe*) antibody, rabbit serum

63-137 100 µl

Schizosaccharomyces pombe **Psm1** is a component of protein complex called cohesin which is required for sister chromatid cohesion during cell cycle and in DNA repair. The cohesion complex apparently forms a large proteinaceous ring within which sister chromatids can be trapped. At anaphase, the complex is cleaved and dissociates from chromatin, allowing sister chromatids to segregate. *S. pombe* cohesin complexes are composed of the **Psm1** and Psm3 heterodimer attached via their hinge domain, Rad21 which link them, and Psc3, which interacts with Rad21. Cohesin subunits are enriched in broad centromere region.

Applications:

1. Immunoblotting (dilution: 1/300~1/1,000)
2. Immunoprecipitation

Immunogen: Recombinant GST-Psm1 (N-terminal 1~631 region of *S. pombe* Psm1) fusion protein (1)

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 [O94383](#)

References: This antibody has been used in Ref. 1 and 2.

1. Tomonaga T *et al* "Characterization of fission yeast cohesin: essential anaphase proteolysis of Rad21 phosphorylated in the S phase." *Genes Dev* **14**: 2757-2770 (2000) PMID: [11069892](#)
2. Sakai A *et al* "Condensin but not cohesin SMC heterodimer induces DNA reannealing through protein-protein assembly." *EMBO J* **22**:2764-2775 (2003) PMID: [12773391](#)

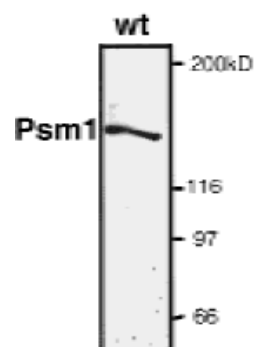


Fig.1 Detection of psm1 by immunoblot using this antibody (ref.1).
Psm1 showed the expected 140 kD band.