

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

Specifications:

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](#)

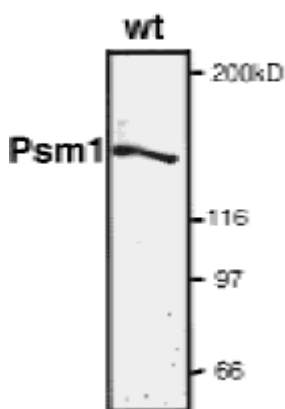


Fig.1 Detection of psm1 by immunoblot using this antibody (ref.1).
Psm1 showed the expected 140 kD band.

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