

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 094383

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

- 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: <u>11069892</u>
- Sakai A *et al* "Condensin but not cohesin SMC heterodimer induces DNA reannealing through protein-protein assembly." *EMBO J* 22:2764-2775 (2003) PMID: <u>12773391</u>



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