



Anti-Pad1 (*S. pombe*) antibody, rabbit serum

BACKGROUND

Schizosaccharomyces pombe **Pad1**, a 35 kDa protein, is a component of the 26S proteasome which is involved in the ATP-dependent degradation of ubiquitinated proteins. Transcription factor Pap1 is controlled by the functional interaction between the positive regulator **Pad1** and negative regulator Crm1. Both proteins are essential for cell viability and for the maintenance of chromosome structure. **Pad1** is also responsible for resistance to staurosporine, and other drugs such as cycloheximide and caffeine.

Product type	Primary antibodies
Host	Rabbit
Source	serum
Form	Liquid Rabbit antiserum added with 0.05 % sodium azide
Volume	100 µl
Concentration	
Specificity	Pad1
Antigen	Recombinant <i>S. pombe</i> full-length Pad1
Isotype	

Application notes Immunoblotting, IP
Recommended use

Recommended dilutions

Immunoblotting (dilution: 1/300~1/1000)

Optimal dilutions/concentrations should be determined by the end user.

Data Link: [Swiss-Prot P41878](#)

Staining Pattern

Cross reactivity Specific to *S. pombe*

Storage -20°C

References

- 1) Shimanuki M *et al.* "A novel essential fission yeast gene pad1+ positively regulates pap1+-dependent transcription and is implicated in the maintenance of chromosome structure." *J Cell Sci* **108**: 569-579 (1995) PMID: [7769002](#)
- 2) Tatebe H and Yanagida M "Cut8, essential for anaphase, controls localization of 26S proteasome, facilitating destruction of cyclin and Cut2." *Curr Biol.* **10**:1329-1338 (2000) PMID: [11084332](#)
- 3) Takeda K and Yanagida M "Regulation of nuclear proteasome by Rhp6/Ubc2 through ubiquitination and destruction of the sensor and anchor Cut8." *Cell* **122**:393-405 (2005) PMID: [16096059](#)

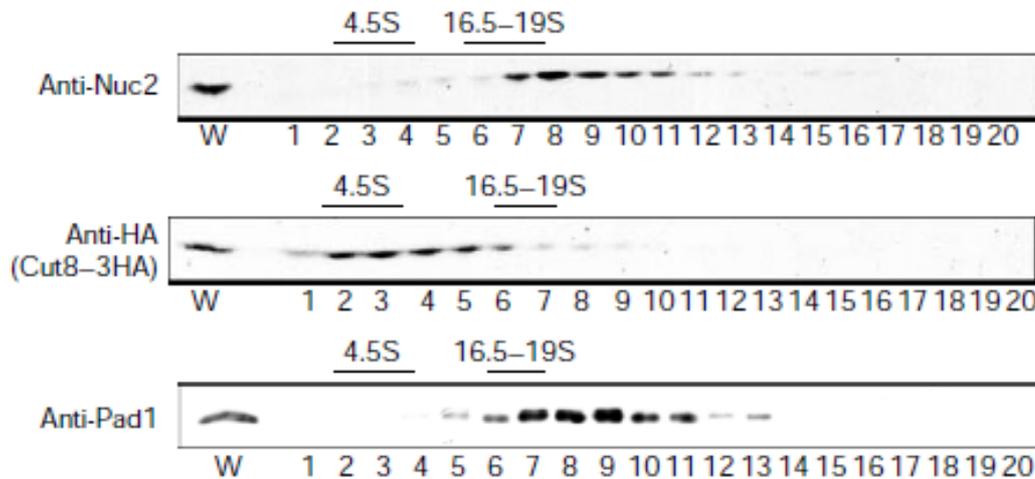


Fig.1 Fractions from sucrose gradient centrifugation of wild type *S. pombe* cells containing integrated Cut8-3HA were immunoblotted using antibodies Nuc2, Pad1 and HA (ref.2).

Cut8 protein forms a broad peak around 4-15S (middle panel), distinct from the peak of 20S cyclosome (top panel) and 26S proteasome (bottom panel). Nuc2 and Pad1 are the subunits of cyclosome and proteasome, respectively.

For research use only. Not for clinical diagnosis.

Manufactured by BioAcademia, Inc.



COSMO BIO Co., LTD.

Inspiration for Life Science

TOYO 2CHOME, KOTO-KU, TOKYO, 135-0016, JAPAN

URL: <http://www.cosmobio.co.jp>

e-mail: export@cosmobio.co.jp

[Outside Japan] Phone : +81-3-5632-9617

[国内連絡先] Phone : +81-3-5632-9610

FAX : +81-3-5632-9618

FAX : +81-3-5632-9619