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

Product code	63-518
Size	100 µg
Storage	-20℃
Concentration	1mg/ml
Buffer	PBS- with 50 % glycerol
Purity	Purified IgG fraction with protein A from rabbit antiserum (63-133).
Immunogen	Recombinant *S. pombe* full-length Pad1
Isotype	Rabbit IgG
Reactivity	*S. pombe* Pad1 protein.
Special notes	Purified from rabbit antiserum (63-133)
Application	1. Western blotting (1/300-1/1000) 2. Immunofluorescence staining
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.
Data Link	UniProtKB P41878 (RPN11_SCHPO)
Related Products	63-133 Anti-Pad1 (*S. pombe*) antibody, rabbit serum

Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.

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Data Images: 63-518 Anti-Pad1 (*S. pombe*) antibody, rabbit polyclonal

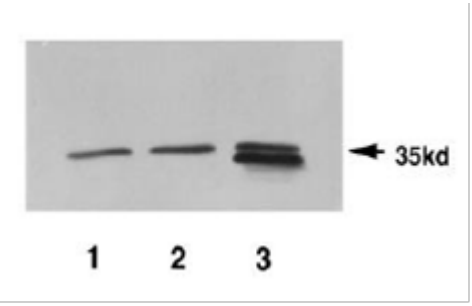


Fig1. Identification of Pad1 protein in crude extracts by anti-Pad1 antiserum

Lane 1: Endogeneous Pad1 protein

Lane 2: Pad1 protein expressed in the cells carrying wild-type *pad1* gene on plasmid

Lane 3: Pad1 proteins expressed in the cells carrying both wild type *pad1* gene and truncated *pad1* gene encoding 35 kDa and 33 kDa protein, respectively.

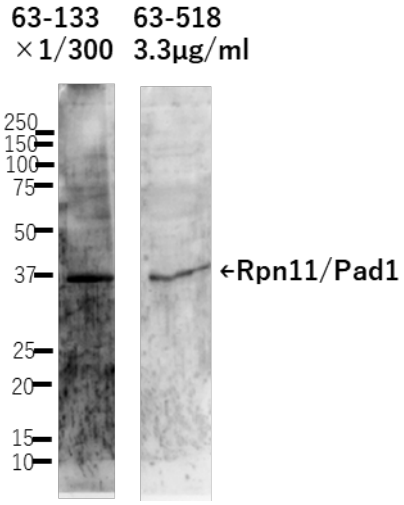


Fig2. Detection of Pad1 in the crude extract of *S. pombe* by Western blotting using this antibody.
Crude cell extract of S. pombe (20 μg) was analyzed by western blotting using anti-Rpn1 antibody at 1/1,000 dilution of 63-133 or 1μg/ml of 63-518. Blotting should be done in wet system. Molecular mass of Rpn1 is 35 kDa

References: This antibody has been used in Ref. 1, 2 and 3.

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

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