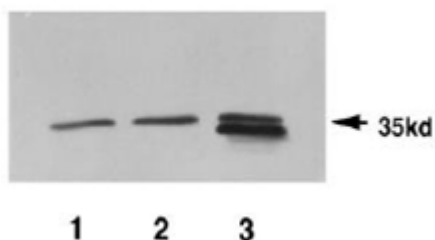


## Anti-Pad1 (*S. pombe*) antibody, rabbit serum

<b>Product code</b>	63-133
<b>Size</b>	100 µl
<b>Storage</b>	Store 4°C for short term For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
<b>Concentration</b>	N/A
<b>Buffer</b>	0.05% sodium azide
<b>Purity</b>	Rabbit antiserum
<b>Immunogen</b>	Recombinant <i>S. pombe</i> full-length Pad1
<b>Isotype</b>	Rabbit IgG
<b>Reactivity</b>	<i>S. pombe</i> Pad1 protein.
<b>Special notes</b>	N/A
<b>Application</b>	1. Western blotting (1/300-1/1000) 2. Immunofluorescence staining
<b>Background</b>	<i>Schizosaccharomyces pombe</i> <b>Pad1</b> , 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 <b>Pad1</b> and negative regulator Crm1. Both proteins are essential for cell viability and for the maintenance of chromosome structure. <b>Pad1</b> is also responsible for resistance to staurosporine, and other drugs such as cycloheximide and caffeine.
<b>Data Link</b>	UniProtKB <a href="#">P41878</a> (RPN11_SCHPO)
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.	

**Data Images:** 63-133 Anti-Pad1 (*S. pombe*) antibody, rabbit serum



**Figure. 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.

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

1. Shimanuki M *et al.* "A novel essential fission yeast gene *pad1*<sup>+</sup> positively regulates *pap1*<sup>+</sup>-dependent transcription and is implicated in the maintenance of chromosome structure." *J Cell Sci* **108**: 569-579 (1995) PMID: [7769002](https://pubmed.ncbi.nlm.nih.gov/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](https://pubmed.ncbi.nlm.nih.gov/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](https://pubmed.ncbi.nlm.nih.gov/16096059/)