

Size 100 μl Storage Store 4°C for short term For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing. Concentration N/A Buffer 0.05% sodium azide Purity Rabbit antiserum Immunogen Recombinant C-terminal polypeptide (26kDa) of <i>S. pombe</i> Ppa2 (Ref. 1) Isotype Rabbit IgG Reactivity The antibody recognized both Ppa1 and Ppa2 polypeptides in <i>S. pombe</i> because of their high amino acid similarity (~80% identity) (Fig.1 and ref. 1). Special notes N/A Application 1. Immunoblotting (dilution: 1/1000) 2. Immunofluorescence microscopy 3. Immunoprecipitation Background Schizosaccharomyces pombe Ppa2 is a type 2A-like serine/threonine-proteiphosphatase catalytic subunit whose polypeptide sequence has ~80% identity those of mammalian type 2A phosphatases. Ppa2 determines the sensitivity those of mammalian type 2A phosphatases.
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okadaic acid, which is an inhibitor of protein serine/threonine phosphatase The loss of the ppa2 gene causes cells to be hypersensitive to the okadaic acid Ppa2 plays important roles in cell cycle control. It may be involved in controlling the entry into mitosis, possibly acting as an inhibitor (ref.1). Ppa2 is abundant in the cytoplasm, in contrast to the type 1-like phosphatase Dis2, which enriched in the nucleus. Thus Ppa2 may perform major functions outside the nucleus.
Data Link UniProtKB P23636 (PP2A2_SCHPO)
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PROCEDURES. NOT FOR MILITARY USE.

Anti-Ppa2 (S. pombe) antibody, rabbit serum

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Data Images: 63-135 Anti-Ppa2 (S. pombe) antibody, rabbit serum

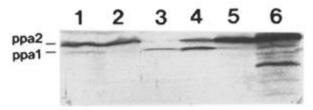


Fig.1 Identification of Ppa1 and Ppa2 proteins. An immunoblot with anti-ppa2 antibody is shown (ref.1).

lane 1: Wild-type S. pombe

lane 2: $\Delta ppa1$

lane 3: $\Delta ppa2$

lane 4: Wild-type carrying a multicopy plasmid with ppa1 gene

lane 5: Wild-type carrying a multicopy plasmid with ppa2 gene

lane 6:Wild-type carrying a multicopy plasmid with ADH promoter ligated with ppa2 gene

The positions of ppa1 (36 kDa) and ppa2 (39 kDa) polypeptide bands are indicated.

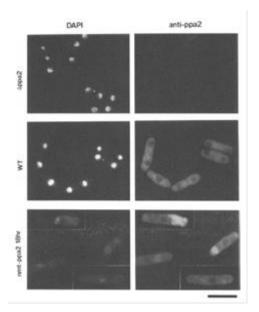


Fig.2 Cellular location of Ppa1 and Ppa2 (ref.1).

Indirect immunofluorescence microscopy of $\Delta ppa2$ deletion, wild type (WT), and wild-type overexpressing ppa2 (nmt-ppa2, 18hr) was done, using anti-ppa2 antibody (right); The same cells stained by DAPI are also shown (left).

Immunofluorescence was hardly detected in $\Delta ppa2$ cells, whereas cytoplasmic immunofluorescence was abundant in wild-type cells. Wild-type cells carrying nmt-ppa2 plasmid overexpress Ppa2 protein in the absence of thiamine for 18 hr. Immunofluorescence was enhanced further in the cytoplasm, often accumulated at the nuclear periphery or within restricted domains. The deformation of

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chromosomal DNA was also visible in overexpressed cells. Bar, 10um.

References: The antibody has been used in Ref. 1 nad 2.

- Kinoshita N *et al* "Negative regulation of mitosis by the fission yeast protein phosphatase ppa2." Genes Dev 7: 1059-1071 (1993) PMID: <u>8389306</u>
- 2. Kinoshita K *et al* "The regulatory subunits of fission yeast protein phosphatase 2A (PP2A) affect cell morphogenesis, cell wall synthesis and cytokinesis." *Genes Cell* **1**:29-45 (1996) PMID: <u>9078365</u>