

## Anti-Dis2 p-T316 (*S. pombe*) antibody, rabbit serum

63-121 50  $\mu$ l

**Key words:** Phosphoprotein phosphatase, DNA damage checkpoint, microtubule cytoskeleton organization, rRNA processing, signal transduction, signal transduction, mitotic cell cycle, homologous chromosome segregation

**Background:** *S. pombe* dis2 gene encodes Serine/threonine-protein phosphatase PP1-1 (327 aa, 37.6 kDa) which plays essential role in cell cycle control and required for exit from mitosis.

Dis2 protein is phosphorylated at Thr 316 in mitosis

### Applications

1. Western blotting (1/1,000~1/2,000 dilution). Not tested for other applications

**Immunogen:** Synthetic peptide NWHMT(PO<sub>3</sub>)PPRKN conjugated to KLF

**Specificity:** Reacts with *S. pombe* Dis2 protein phosphorylated at Thr316. Not tested with other species

**Form:** Rabbit antiserum added with 0.05 % sodium azide

**Storage:** Shipped at 4°C and upon arrival, centrifuge briefly, aliquot and store at -20°C .

**Database Links:** [UniProt/Swiss-Prot P13681](#)

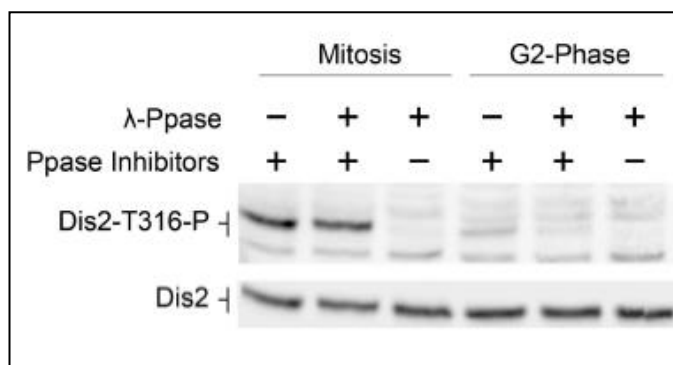
[PomBase SPBC776.02c](#)

**References:** This antibody was described in Ref. 1 and used in the following publications.

1. Ishii K. et al (1996) Requirement for PP1 phosphatase and 20S cyclosome/APC for the onset of anaphase is lessened by the dosage increase of a novel gene sds23+. EMBO J. 15: 6629-40. [PubMed 8978689](#) WB

2. Sutani T. et al (1999) Fission yeast condensin complex: essential roles of non-SMC subunits for condensation and Cdc2 phosphorylation of Cut3/SMC4. Genes Dev. 13: 2271-83. [PubMed 10485849](#)

WB



### Figure. Identification of Dis2 phosphorylated at T316 by western blotting with the antibody.

*S. pombe* crude extracts prepared from mitotic and G2-phase were analysed by WB. Dis2 and phosphorylated Dis2 were detected with anti-Dis2 antibody (BA 63-119) and this antibody, respectively. Phosphorylation is increased in mitosis and sensitive to  $\lambda$ -phosphatase. The antibody was used at 1/1,000 dilution in PBS containing 0.1% Tween and 1% milk. Courtesy of Mr M. Swaffer at Cancer Research UK

**Related Product:** [63-119 anti-Dis2 antibody](#)