

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

Catalog # 63-121 50  $\mu$ l

*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

Western blot 1:1000-2000 dilution

### Specification

Immunogen: Synthetic peptide NWHMT(PO3)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

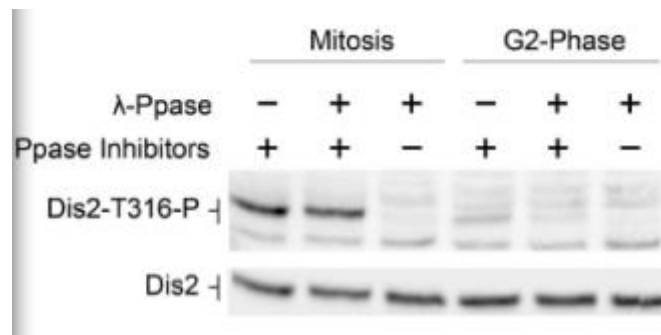
Storage: Shipped at 4°C or -20°C, upon arrival aliquot and store at -20°C

### Database Links

UniProt/Swiss-Prot P13681, PomBase SPBC776.02c

### Reference

- 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
- 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



### Figure. Identification of Dis2 phosphorylated at T316 by Western blot with the antibody.

*S. pombe* crude extracts prepared from mitotic and G2-phase were analyzed 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