

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

Product code	63-121
Size	50 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	Synthetic peptide NWHMT(PO3)PPRKN conjugated to KLH
Isotype	Rabbit IgG
Reactivity	<i>S. pombe</i> Dis2 protein phosphorylated at Thr316.
Special notes	N/A
Application	1. Western blotting (1/1000-1/2000) Not tested for other applications
Background	<i>S. pombe</i> 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 only at mitosis. Key words: Phosphoprotein phosphatase, DNA damage checkpoint, microtubule cytoskeleton organization, rRNA processing, signal transduction, signal transduction, mitotic cell cycle, homologous chromosome segregation.
Data Link	UniProtKB P13681 PomBase SPBC776.02c
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.	

Data Images: 63-121 Anti-Dis2 p-T316 (*S. pombe*) antibody, rabbit serum

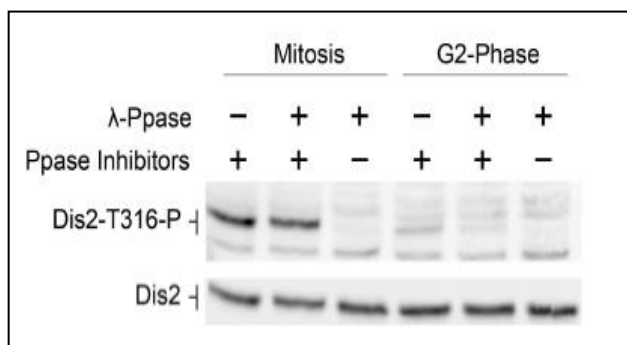


Fig.1 Identification of Dis2 phosphorylated at T316 by western blotting.

S. pombe crude extracts prepared from mitotic and G2-phase were analysed by WB. Dis2 and phosphorylated Dis2 were detected with anti-Dis2 antibody (BA63-119) and this antibody, respectively. Phosphorylation is increased in mitosis and sensitive to λ -phosphatase. The antibody was used at 1/1,000 dilution in PBS containing 0.1% Tween and 1% milk. Courtesy of Dr M. Swaffer at Cancer Research UK

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

1. Ishii K. et al 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. 1996. 15: 6629-40. [PubMed 8978689](#) **WB**
2. Sutani T. et al Fission yeast condensin complex: essential roles of non-SMC subunits for condensation and Cdc2 phosphorylation of Cut3/SMC4. Genes Dev. 1999. 13: 2271-83. [PubMed 10485849](#) **WB**
3. Swaffer MP et al. CDK Substrate Phosphorylation and Ordering the Cell Cycle. [Cell](#). 2016 Dec 15;167(7):1750-1761 [PMID: 27984725](#) **WB**

Related Product:

63-119 anti-Dis2 antibody (D2F), rabbit serum