



## Sin4p (yD-17): sc-28059

### BACKGROUND

Sin4p is a member of a mediator complex associated with the C-terminus of RNA polymerase II and is required for proper transcriptional regulation of several yeast genes. Mutations of Sin4p can affect either activation or repression of selected genes thus suggesting a dual involvement in chromatin organization.

### REFERENCES

- Jiang, Y.W., et al. 1995. Genetic and physical interactions between yeast RGR1 and SIN4 in chromatin organization and transcriptional regulation. *Genetics*. 140: 47-54.
- Macatee, T., et al. 1997. Global alterations in chromatin accessibility associated with loss of SIN4 function. *Nucleic Acids Res.* 25: 1240-1247.
- Lemaire, M., et al. 2000. The NC2 repressor is dispensable in yeast mutated for the Sin4p component of the holoenzyme and plays roles similar to Mot1p *in vivo*. *Mol. Microbiol* 36: 163-173.
- Mizuno, T., et al. 2000. Activation of basal transcription by a mutation in SIN4, a yeast global repressor, occurs through a mechanism different from activator-mediated transcriptional enhancement. *Mol. Gen. Genet.* 263: 48-59.
- West, R.W. Jr., et al. 2000. RLR1 (THO2), required for expressing lacZ fusions in yeast, is conserved from yeast to humans and is a suppressor of SIN4. *Gene* 243: 195-205.
- Howard, S.C., et al. 2001. The Ras/PKA signaling pathway of *Saccharomyces cerevisiae* exhibits a functional interaction with the Sin4p complex of the RNA polymerase II holoenzyme. *Genetics* 159: 77-89.
- Nishizawa, M., et al. 2001. Negative regulation of transcription by the yeast global transcription factors, Gal11 and Sin4. *Yeast* 18: 1099-1110.
- Mizuno, T., et al. 2003. Gal11 is a general activator of basal transcription, whose activity is regulated by the general repressor Sin4 in yeast. *Mol. Genet. Genomics* 269: 68-77.
- Wang, X., et al. 2004. Mutations in SIN4 and RGR1 cause constitutive expression of MAL structural genes in *Saccharomyces cerevisiae*. *Genetics* 168: 747-757.

### SOURCE

Sin4p (yD-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Sin4p of *Saccharomyces cerevisiae* origin.

### PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-28059 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### RESEARCH USE

For research use only, not for use in diagnostic procedures.

### APPLICATIONS

Sin4p (yD-17) is recommended for detection of Sin4p of *Saccharomyces cerevisiae* origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

### RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048.

### STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.