Spt3 (yN-18): sc-26256



The Power to Ouestion

BACKGROUND

The transcription of many RNA polymerase II-dependent genes requires Spt3, a member of the $\it S. cerevisiae SAGA$ complex. Transcription from $\it \delta$ sequences, the long terminal repeats that flank yeast Ty elements, requires the yeast SPT3 gene. Spt3 and Spt20 work together to recruit TATA-box binding protein (TBP) to the core promoter allowing TBP to bind to SAGA-dependent promoters. Null mutations in the Spt3 gene cause defects in sporulation, diploid filamentous growth, and haploid invasive growth, indicating that Spt3 has an important role in both mating and development pathways in yeast. At the promoters of some genes including yeast HO, HIS3 and TRP3 genes, Spt3 inhibits binding of TBP, resulting in reduced transcription. This repressive effect of Spt3 can be overcome by another member of the SAGA complex, GCN5, which promotes the formation of a TBP/TFIIA complex by histone acetylation.

REFERENCES

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SOURCE

Spt3 (yN-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Spt3 of Saccharomyces cerevisiae origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-26256 P, (100 μ g 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

Spt3 (yN-18) is recommended for detection of Spt3 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 or our catalog for detailed protocols and support products.

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