

# Swi3 (yC-16): sc-11935

## BACKGROUND

Maximal expression of G<sub>1</sub> cyclins is induced by the heterodimeric transcription factor complex, which is composed of the DNA-binding subunit, Swi4 (also designated Art1), and Swi6. In addition to binding Swi4, Swi6 forms a complex with Mbp1 that activates S-phase cyclins and genes involved in DNA synthesis. Rpb1 is the largest subunit of the yeast RNA polymerase II. Srb4 is a basal transcription factor that is essential for the establishment of the transcription initiation apparatus. Ssn6, a tandem tetratricopeptide repeat-containing protein, associates with Tup1 to form a general transcriptional repression complex. The yeast SNF-SWI complex is required for transcriptional activation of diverse genes and has been shown to alter chromatin structure. This complex has at least ten components, including Snf2 (alternatively designated Swi2, Ric1, or Gam1), Snf5, Snf6, Swi1 (alternatively designated Adr6 or Gam3), and Swi3, and has been widely conserved. Transcriptional activators, Snf2 and Snf5, function by antagonizing repression mediated by nucleosomes.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: SWI3 (*Saccharomyces cerevisiae*) mapping to X.

## RESEARCH USE

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

## SOURCE

Swi3 (yC-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Swi3 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-11935 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Swi3 (yC-16) is recommended for detection of Swi3 of *Saccharomyces cerevisiae* origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) 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. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## 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.