# STH1 (yT-18): sc-33290



The Power to Question

# **BACKGROUND**

The chromatin structure remodeling complex, or RSC, is involved in cell growth in S. cerevisiae. Nuclear protein STH1/NPS1, or STH1, is a part of the RSC complex and is an ATPase. Single stranded DNA stimulates the ATPase activity of STH1 and subsequent nucleosome remodeling. STH1 is also necessary for the progression through the  $G_2/M$  phase of mitotic division. STH1 shares sequence homology with the protein SNF2, with 72% identity over a 661 amino acid region.

# **REFERENCES**

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# **SOURCE**

STH1 (yT-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of STH1 of *Saccharomyces cerevisiae* origin.

# **STORAGE**

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

#### **PRODUCT**

Each vial contains 200  $\mu g$  IgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-33290 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

# **APPLICATIONS**

STH1 (yT-18) is recommended for detection of STH1 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).

Molecular Weight of STH1: 157 kDa.

# **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.

# **RESEARCH USE**

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

### **PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

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