# Swe1 (yC-19): sc-6719



The Power to Question

#### **BACKGROUND**

Cell cycle progression is controlled at a point late in G1 designated Start. Passage through Start requires the activity of the cyclin-dependent protein kinase Cdc28. Transition from G1 to S phase requires the association of Cdc28 with members of the G1 cyclin family. The G2 to M phase transition requires the M phase cyclins as well as the G2 cyclins. The S phase cyclins coordinate DNA replication with cytokinesis. Expression of the cyclins is controlled via ubiquitin-mediated proteolysis. Cdc28 is regulated by the protein kinase Swe1. This protein, a homolog of the *Saccharomyces pombe* Wee1 protein, phosphorylates Cdc28 and inhibits its activity.

### **REFERENCES**

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# **SOURCE**

Swe1 (yC-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Swe1 of *Saccharomyces cerevisiae* origin.

## **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-6719 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **APPLICATIONS**

Swe1 (yC-19) is recommended for detection of Swe1 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 Swe1: 65/98 kDa.

Positive Controls: Saccaromyces cerevisiae whole cell lysate.

# **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.

#### **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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