# Sls1 (yC-18): sc-23756



The Power to Ouestion

## **BACKGROUND**

SIs1 is an endoplasmic reticulum (ER) protein that acts as a nucleotide exchange factor for yeast Kar2 (BiP). SIs1 interacts directly with the ATPase domain of Kar2, suggesting some role in modulating the activity of this vital chaperone. SIs1 (also called Sil1 or Per100) was identified as a homologue of a protein required for efficient cotranslational protein translocation in the yeast Yarrowia lipolytica. SIs1 is a membrane-bound regulator of transcription-coupled processes involved in *Saccharomyces cerevisiae* mitochondrial gene expression. Interaction of Kar2 and SIs1 is required for efficient cotranslational translocation of secreted proteins in the yeast Yarrowia lipolytica. In a dose-dependent manner, SIs1 stimulates the binding of ScKar2 on the lumenal J domain of Sec63. Moreover, SIs1 promotes the Sec63-mediated activation of Kar2's ATPase activity.

# **REFERENCES**

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# SOURCE

SIs1 (yC-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of SIs1 of *Saccharomyces cerevisiae* origin.

## **PRODUCT**

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

Blocking peptide available for competition studies, sc-23756 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **APPLICATIONS**

SIs1 (yC-18) is recommended for detection of SIs1 of *Saccaromyces 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.

#### **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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