# Spo12 (yC-16): sc-30442



The Power to Question

## **BACKGROUND**

Meiotic cellular devision is required for the production of haploid gametes from diploid cells. During meiosis, there are two rounds of chromosome segregation, designated meiosis I and meiosis II. Spo12 (sporulation-specific protein 12) is a 173 amino acid protein that is involved in the chromosome division during meiosis I. Localized to the nucleus, Spo12 is also a component of the FEAR (Cdc14 early anaphase release) network, responsible for the release of Cdc14 from the nucleolus during early anaphase. Spo12 is also thought to be a positive regulator of mitotic exit.

# REFERENCES

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# SOURCE

Spo12 (yC-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Spo12 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-30442 P, (100  $\mu$ 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**

Spo12 (yC-16) is recommended for detection of Spo12 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).

Molecular Weight of Spo12: 20 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) 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 or our catalog for detailed protocols and support products.

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