



Sec1 (yD-19): sc-26672

BACKGROUND

The secretory pathway carries newly synthesized integral membrane and secretory proteins from the ER to the cell surface. This pathway involves a series of vesicle budding and fusion events to carry cargo forward, and it is coordinated with a retrograde transport pathway that serves to recycle membrane components and soluble resident proteins. The *Saccharomyces cerevisiae* genes SLY1, SEC1, VPS45 (Stt10), and VPS33 (SLP1) belong to a common gene family called the Sec1/Munc18 (SM) family proteins, which are involved in vesicle trafficking, synaptic transmission and general secretion among yeast cellular compartments. The mostly hydrophilic SM proteins lack a transmembrane domain, but nevertheless remain membrane-bound. SM proteins may participate in positive and negative regulation of SNARE complex formation. SM proteins functionally interact with soluble N-ethylmaleimide-sensitive factor attachment protein receptors (SNARE) in membrane fusion.

REFERENCES

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6. Dulubova, I., Yamaguchi, T., Arac, D., Li, H., Huryeva, I., Min, S.W., Rizo, J. and Sudhof, T.C. 2003. Convergence and divergence in the mechanism of SNARE binding by Sec1/Munc18-like proteins. *Proc. Natl. Acad. Sci. USA* 100: 32-37.

SOURCE

Sec1 (yD-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Sec1 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-26672 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Sec1 (yD-19) is recommended for detection of Sec1 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).

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.