



Sly1 (yN-20): sc-22489

BACKGROUND

Saccharomyces cerevisiae SLY1 protein is a member of the Sec1/Munc18-family proteins, which are essential for vesicular trafficking. SLY1 is a t-SNARE-interacting protein that functions in vesicle transport between the endoplasmic reticulum and the Golgi apparatus. SLY1, SEC1 and VPS33 (SLP1) genes, all of which are involved in vesicle trafficking among yeast cellular compartments belong to a common *Saccharomyces cerevisiae* gene family. DSL1 was identified through its genetic interaction with SLY1. SLY1 genetically and biochemically interacts with the small GTPase YPT1 and SED5, proteins involved in docking/fusion in the early secretory pathway of yeast. Specifically, SLY1 binds to a short, evolutionarily conserved amino-terminal peptide of SED5 and UFE1 in yeast and of syntaxins 5 and 18 in vertebrates. In these syntaxins, the SLY1 binding peptide is upstream of a separate, autonomously folded amino-terminal domain.

REFERENCES

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2. Mizuta, K. and Warner, J.R. 1994. Continued functioning of the secretory pathway is essential for ribosome synthesis. *Mol. Cell. Biol.* 14: 2493-2502.
3. Dascher, C. and Balch, W.E. 1996. Mammalian Sly1 regulates syntaxin 5 function in endoplasmic reticulum to Golgi transport. *J. Biol. Chem.* 271: 15866-15869.
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SOURCE

Sly1 (yN-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Sly1 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-22489 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Sly1 (yN-20) is recommended for detection of Sly1 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.