



SR- α (γ N-20): sc-28099

BACKGROUND

The targeting of nascent secretory proteins to the endoplasmic reticulum membrane requires a protein designated the signal recognition particle receptor. In yeast, the α -subunit of the receptor, designated SR- α , localizes to the peripheral membrane, and contains a GTP binding active site. Disruption of the gene encoding SR- α results in impaired translocation of soluble and membrane proteins across the ER membrane, and also a significant reduction in the growth rate of cells.

REFERENCES

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- Grosshans H., et al. 2001 Biogenesis of the signal recognition particle (SRP) involves import of SRP proteins into the nucleolus, assembly with the SRP-RNA, and Xpo1p-mediated export. *J. Cell. Biol.* 153: 745-62.
- Mutka S.C., et al. 2001. Multifaceted physiological response allows yeast to adapt to the loss of the signal recognition particle-dependent protein-targeting pathway. *Mol. Biol. Cell.* 12: 577-88.
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- Willer M., et al. 2003. Identification of novel protein-protein interactions at the cytosolic surface of the Sec63 complex in the yeast ER membrane. *Yeast.* 20: 133-48.
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SOURCE

SR- α (γ N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of signal recognition particle receptor α of *Saccharomyces cerevisiae* origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-28099 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

SR- α (γ N-20) is recommended for detection of SR- α 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.

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.