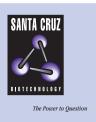
SANTA CRUZ BIOTECHNOLOGY, INC.

Ost1 (yA-13): sc-32482



BACKGROUND

Membrane proteins of the endoplasmic reticulum (ER) may be localized by mechanisms that involve retention, retrieval or a combination of both. ER localization information has been found in cytoplasmic, transmembrane or luminal domains. Specific retrieval mechanisms have been identified for luminal ER proteins, which contain a KDEL domain, and for type I transmembrane proteins carrying a dilysine motif. Oligosaccharyl transferase α subunit (Ost1, also designated Dolichyl-diphosphooligosaccharide protein glycosyltransferase α subunit) is a protein belonging to the ribophorin I family of proteins. In polypeptide chains, Ost1 catalyzes the transfer of high mannose oligosaccharide to an asparagine residue within an Asn-X-Ser/Thr consensus motif.

REFERENCES

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- Pathak, R., et al. 1995. The essential yeast NLT1 gene encodes the 64 kDa glycoprotein subunit of the oligosaccharyl transferase. FEBS Lett. 362: 229-234.
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- 4. Fu, J., et al. 1997. Interactions among subunits of the oligosaccharyl transferase complex. J. Biol. Chem. 272: 29687-29692.
- Kelleher, D.J., et al. 1997. DAD1, the defender against apoptotic cell death, is a subunit of the mammalian oligosaccharyltransferase. Proc. Natl. Acad. Sci. USA 94: 4994-4999.
- Sanjay, A., et al. 1998. DAD1 is required for the function and the structural integrity of the oligosaccharyl transferase complex. J. Biol. Chem. 273: 26094-26099.
- Fu, J. and Kreibich, G. 2000. Retention of subunits of the oligosaccharyltransferase complex in the endoplasmic reticulum. J. Biol. Chem. 275: 3984-3990.
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SOURCE

Ost1 (yA-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Ost1 of *Saccharomyces cerevisiae* origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-32482 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Ost1 (yA-13) is recommended for detection of Ost1 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 Ost1: 64 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) Immunofluo-rescence: use donkey anti-goat IgG-FITC: sc-2783 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (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.

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.