



Opi1p (yK-18): sc-32632

BACKGROUND

In *Saccharomyces cerevisiae*, recessive mutations at the OPI1 locus result in constitutively derepressed expression of inositol 1-phosphate synthase, the product of the INO1 gene. Many of the other enzymes involved in phospholipid biosynthesis are also expressed at high derepressed levels in OPI1 mutants. Thus, the OPI1 gene is believed to encode a negative regulator that is required to repress a whole subset of structural genes encoding for phospholipid biosynthetic enzymes. The OPI1 gene is nonessential to the organism. The Opi1 protein contains a well defined heptad repeat of leucine residues that has been observed in other regulatory proteins. In addition, the protein contains poly glutamine residue stretches which have also been reported in yeast genes having regulatory functions.

REFERENCES

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SOURCE

Opi1p (yK-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Opi1p of *Saccharomyces cerevisiae* origin.

STORAGE

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

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-32632 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Opi1p (yK-18) is recommended for detection of Opi1p 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. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (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.

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.