

Ypk1 (yN-20): sc-12051

BACKGROUND

Extracellular pheromones bind to cell surface receptors and stimulate the activation of the kinase Ste20. This leads to the activation of the MAPKKK Ste11 and the subsequent members of this MAP kinase cascade, Ste7, Fus3 (also called Dac2) and Kss1. These MAP kinases activate Ste12 and Far1, which effect transcriptional and morphological changes necessary for mating. Cdc42, a small GTP-binding protein, is thought to activate Ste20. Cdc42 also plays a role in the polarization of budding. Cla4, a homolog of Ste20, interacts with Cdc42 and is also involved in budding and cytokinesis. Cdc11 is also required for cytokinesis and is present at the bud neck during cell division. Ypk1 and Ypk2 are functionally overlapping protein kinases that are critical to the normal proliferation of yeast cells.

REFERENCES

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SOURCE

Ypk1 (yN-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Ypk1 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-12051 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Ypk1 (yN-20) is recommended for detection of Ypk1 of *Saccharomyces cerevisiae* origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000).

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.

SELECT PRODUCT CITATIONS

- Rogers, S.L., Wiedemann, U., Stuurman, N. and Vale, R.D. 2003. Molecular requirements for actin-based lamella formation in *Drosophila* S2 cells. *J. Cell Biol.* 162: 1079-1088.
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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.