



Elm1 (yN-19): sc-12027

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. The kinase Elm1 regulates morphologic differentiation and is involved in controlling pseudohyphal growth.

REFERENCES

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SOURCE

Elm1 (yN-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Elm1 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-12027 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Elm1 (yN-19) is recommended for detection of Elm1 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).

Molecular Weight of Elm1: 74 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.

SELECT PRODUCT CITATIONS

- Sutherland C.M., Hawley, S.A., McCartney, R.R., Leech, A., Stark, M.J., Schmidt, M.C. and Hardie, D.G. 2003. Elm1p is one of three upstream kinases for the *Saccharomyces cerevisiae* SNF1 complex. *Curr. Biol.* 13: 1299-1305.

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.