



Gpa1 (yC-19): sc-6789

BACKGROUND

MAP kinase cascades, consisting of a mitogen-activated protein kinase (also called ERK, for extracellular regulated kinase) and one or more upstream regulatory kinases (MAPKKs), play an integral role in signal transduction. One of the best characterized MAP kinase pathways is the yeast pheromone response pathway. Extracellular pheromones bind to the receptors Ste2 and Ste3, which couple to a heterotrimeric G protein. The G protein consists of α , β and γ subunits, respectively designated Gpa1 (also called Scg1, Cdc70 or Dac1), Ste4 and Ste18. Activation of this G protein leads to the activation of the MAPKKK Ste11, which then activates the MAPKK Ste7. Activated Ste7 phosphorylates the MAP kinases Fus3 (also called Dac2) and Kss1. These MAP kinases activate the transcription factor Ste12, which upregulates mating-specific genes, and Far1, which is involved in cell cycle arrest.

REFERENCES

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SOURCE

Gpa1 (yC-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Gpa1 of *Saccaromyces 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 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-6789 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Gpa1 (yC-19) is recommended for detection of Gpa1 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.