



Msn2 (yN-20): sc-48594

BACKGROUND

Commitment to cell division occurs at a point late in the G₁ phase of the cell cycle, termed Start. Passage through Start requires the activation of the Cdc28 protein kinase by the cell cycle-regulated G₁ cyclins. Stress factors induce transcription through the induction of various transcription factors. Msn2 and Msn4 mediate transcription via the stress response element (STRE). Msn2 is a transcription factor involved in the shift from fermentative growth to respiratory growth in yeast. During glucose exhaustion, Msn2 is activated and concentrated in the nucleus. Chronic stress or low protein kinase A (PKA) activity cause an increased degradation of Msn2, which may be necessary to allow growth under chronic stress conditions. Msn2 may also have a role in mediating the stress-induced expression of neutral trehalase, which controls trehalose hydrolysis in response to multiple stress conditions.

REFERENCES

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SOURCE

Msn2 (yN-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Msn2 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-48594 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Msn2 (yN-20) is recommended for detection of Msn2 of *Saccharomyces cerevisiae* origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

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.