



Cdc15 (yC-13): sc-27897

BACKGROUND

Exit from mitosis is regulated by the mitotic exit network, which includes a GTPase (Tem1) and various kinases (Cdc15, Cdc5, Dbf2, and Dbf20). Inactivation of mitotic cyclin-dependent kinases (Cdks) is required for cells to exit mitosis. Cdc15 protein influences the organization of lipid rafts at the cleavage site for cytokinesis. Cdc15 is phosphorylated at multiple Cdk-consensus sites during most of the cell cycle, yet is transiently dephosphorylated in late mitosis. Although phosphorylation appears to have no effect on Cdc15 kinase activity, phosphorylation does inhibit Cdc15 from mediating mitotic exit. Cdc15 serves both as an activator and substrate of Cdc14.

REFERENCES

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2. Jaspersen, S.L., et al. 2000. Cdc14 activates cdc15 to promote mitotic exit in budding yeast. *Curr. Biol.* 10: 615-618.
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4. Visintin, R., et al. 2001. Regulation of the mitotic exit protein kinases Cdc15 and Dbf2. *Mol. Biol. Cell.* 12: 2961-2974.
5. Hwa Lim, H., et al. 2003. Inactivation of mitotic kinase triggers translocation of MEN components to mother-daughter neck in yeast. *Mol. Biol. Cell.* 14: 4734-4743.
6. Serikawa, K.A., et al. 2003. The Transcriptome and Its Translation during Recovery from Cell Cycle Arrest in *Saccharomyces cerevisiae*. *Mol. Cell. Proteomics.* 2: 191-204.
7. Takeda, T., et al. 2004. Organization of a sterol-rich membrane domain by cdc15p during cytokinesis in fission yeast. *Nat. Cell. Biol.* 6: 1142-1144.
8. Buck, V., et al. 2004. Fkh2p and Sep1p regulate mitotic gene transcription in fission yeast. *J. Cell Sci.* 117: 5623-5632.

SOURCE

Cdc15 (yC-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Cdc15 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-27897 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

Cdc15 (yC-13) is recommended for detection of Cdc15 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.