



Net1 (yE-15): sc-27758

BACKGROUND

The protein phosphatase Cdc14 controls exit from mitosis in budding yeast. Nucleolar protein involved in exit from mitosis (Net1) sequesters Cdc14 protein in the nucleolus prior to anaphase. During anaphase, the regulator of nucleolar silencing and telophase exit (RENT) complex, which contains Net1, disassembles, allowing Cdc14 to relocate to the nucleus and cytoplasm to catalyze mitotic exit. Another cell cycle protein, cdc5, regulates the release of cdc14 from Net1 by effecting the phosphorylation state of Net1. Mutations of the Net1 gene and alteration of this signaling network affect the maintenance of the mitochondrial genome, chromosomes and plasmids, implying that Net1 occupies a central position in the yeast genetic regulation network.

REFERENCES

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4. Loughrey Chen, S, et al. 2002. Mass spectrometry-based methods for phosphorylation site mapping of hyperphosphorylated proteins applied to Net1, a regulator of exit from mitosis in yeast. *Mol. Cell Proteomics* 1: 186-196.
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SOURCE

Net1 (yE-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Net1 (Nucleolar protein involved in exit from mitosis) of *Saccharomyces cerevisiae* origin.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

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-27758 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Net1 (yE-15) is recommended for detection of Net1 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.

STORAGE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.