

# Cdc14b Phosphatase (W-17): sc-69462

## BACKGROUND

Cdc14b Phosphatase, also known as CDC14 cell division cycle 14 homolog B, is a 498 amino acid protein belonging to the protein-tyrosine phosphatase family. Cdc14b Phosphatase is composed of two structurally identical A and B domains that form a dual specificity protein phosphatase fold, which preferentially dephosphorylates proteins modified by proline-directed kinases. Cdc14b Phosphatase is highly similar to *Saccharomyces cerevisiae* Cdc14, a protein involved in cell cycle control. Localized to the nucleus, Cdc14b Phosphatase is expressed as four isoforms produced by alternative splicing.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: CDC14B (human) mapping to 9q22.32; Cdc14b (mouse) mapping to 13 B3.

## SOURCE

Cdc14b Phosphatase (W-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Cdc14b Phosphatase of human 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-69462 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Cdc14b Phosphatase (W-17) is recommended for detection of Cdc14b Phosphatase of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Cdc14b Phosphatase (W-17) is also recommended for detection of Cdc14b Phosphatase in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Cdc14b Phosphatase siRNA (h): sc-72833, Cdc14b Phosphatase siRNA (m): sc-72834, Cdc14b Phosphatase shRNA Plasmid (h): sc-72833-SH, Cdc14b Phosphatase shRNA Plasmid (m): sc-72834-SH, Cdc14b Phosphatase shRNA (h) Lentiviral Particles: sc-72833-V and Cdc14b Phosphatase shRNA (m) Lentiviral Particles: sc-72834-V.

Molecular Weight of Cdc14b Phosphatase: 62 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. 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

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Try **Cdc14b Phosphatase (G-8): sc-374572** or **Cdc14b Phosphatase (B-2): sc-376461**, our highly recommended monoclonal alternatives to Cdc14b Phosphatase (W-17).