

**CDC14B Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP9081c****Specification**

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**CDC14B Antibody (Center) Blocking Peptide - Product Information**Primary Accession [O60729](#)**CDC14B Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 8555**Other Names**

Dual specificity protein phosphatase CDC14B, CDC14 cell division cycle 14 homolog B, CDC14B

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP9081c](/products/AP9081c) was selected from the Center region of human CDC14B. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**CDC14B Antibody (Center) Blocking Peptide - Protein Information****Name** CDC14B**Function**

Dual-specificity phosphatase involved in DNA damage response. Essential regulator of the G2 DNA damage checkpoint: following DNA damage, translocates to the nucleus and dephosphorylates FZR1/CDH1, a key activator of the anaphase promoting complex/cyclosome (APC/C). Dephosphorylates SIRT2 around early anaphase. Dephosphorylation of FZR1/CDH1 activates the APC/C, leading to the ubiquitination of PLK1, preventing entry into mitosis. Preferentially dephosphorylates proteins modified by proline-directed kinases.

**Cellular Location**

Nucleus, nucleolus. Nucleus, nucleoplasm. Note=Following DNA damage, translocates from the nucleolus to the nucleoplasm and interacts with FZR1/CDH1

## **CDC14B Antibody (Center) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

## **CDC14B Antibody (Center) Blocking Peptide - Images**

## **CDC14B Antibody (Center) Blocking Peptide - Background**

CDC14B is a member of the dual specificity protein tyrosine phosphatase family. This protein is highly similar to *Saccharomyces cerevisiae* Cdc14, a protein tyrosine phosphatase involved in the exit of cell mitosis and initiation of DNA replication, which suggests the role in cell cycle control. This protein has been shown to interact with and dephosphorylates tumor suppressor protein p53, and is thought to regulate the function of p53. Alternative splice of this gene results in 3 transcript variants encoding distinct isoforms.

## **CDC14B Antibody (Center) Blocking Peptide - References**

Bassermann,F., et.al., Cell 134 (2), 256-267 (2008)Rosso,L., et.al., PLoS Biol. 6 (6), E140 (2008)