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# Cdc25B Antibody (N-term) (A166) Blocking Peptide

**Synthetic peptide**
**Catalog # BP7256d**

## Specification

### Cdc25B Antibody (N-term) (A166) Blocking Peptide - Product Information

Primary Accession P30305

### Cdc25B Antibody (N-term) (A166) Blocking Peptide - Additional Information

**Gene ID** 994

**Other Names**
M-phase inducer phosphatase 2, Dual specificity phosphatase Cdc25B, CDC25B, CDC25HU2

**Target/Specificity**
The synthetic peptide sequence used to generate the antibody <a href=/product/products/AP7256d>AP7256d</a> was selected from the N-term region of human Cdc25B. 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.

### Cdc25B Antibody (N-term) (A166) Blocking Peptide - Protein Information

**Name** CDC25B

**Synonyms** CDC25HU2

**Function**
Tyrosine protein phosphatase which functions as a dosage- dependent inducer of mitotic progression. Required for G2/M phases of the cell cycle progression and abscission during cytokinesis in a ECT2- dependent manner. Directly dephosphorylates CDK1 and stimulates its kinase activity. The three isoforms seem to have a different level of activity.

**Cellular Location**
Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, spindle pole

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## Cdc25B Antibody (N-term) (A166) Blocking Peptide - Protocols

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

- Blocking Peptides

## Cdc25B Antibody (N-term) (A166) Blocking Peptide - Images

## Cdc25B Antibody (N-term) (A166) Blocking Peptide - Background

CDC25B is a member of the CDC25 family of phosphatases. CDC25B activates the cyclin dependent kinase CDC2 by removing two phosphate groups and it is required for entry into mitosis. CDC25B shuttles between the nucleus and the cytoplasm due to nuclear localization and nuclear export signals. The protein is nuclear in the M and G1 phases of the cell cycle and moves to the cytoplasm during S and G2. CDC25B has oncogenic properties, although its role in tumor formation has not been determined.

## Cdc25B Antibody (N-term) (A166) Blocking Peptide - References

Uchida, S., et al., Biochem. Biophys. Res. Commun. 316(1):226-232 (2004).Ito, Y., et al., Int. J. Mol. Med. 13(3):431-435 (2004).Wu, W., et al., Cancer Res. 63(19):6195-6199 (2003).Mils, V., et al., Exp. Cell Res. 285(1):99-106 (2003).Theis-Febvre, N., et al., Oncogene 22(2):220-232 (2003).