

# Cdc25B Antibody (N-term) (A166)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7256d

## Product Information

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Application	WB, E
Primary Accession	<a href="#">P30305</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB07932;RB07931
Calculated MW	64987
Antigen Region	165-194

## Additional Information

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Gene ID	994
Other Names	M-phase inducer phosphatase 2, Dual specificity phosphatase Cdc25B, CDC25B, CDC25HU2
Target/Specificity	This Cdc25B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 165-194 amino acids from the N-terminal region of human Cdc25B.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Cdc25B Antibody (N-term) (A166) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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Name	CDC25B
Synonyms	CDC25HU2
Function	Tyrosine protein phosphatase which functions as a dosage- dependent inducer of mitotic progression (PubMed: <a href="#">1836978</a> , PubMed: <a href="#">20360007</a> ).

Directly dephosphorylates CDK1 and stimulates its kinase activity (PubMed:[20360007](#)). Required for G2/M phases of the cell cycle progression and abscission during cytokinesis in a ECT2-dependent manner (PubMed:[17332740](#)). The three isoforms seem to have a different level of activity (PubMed:[1836978](#)).

#### Cellular Location

Cytoplasm, cytoskeleton, microtubule organizing center, centrosome.  
Cytoplasm, cytoskeleton, spindle pole

## Background

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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.

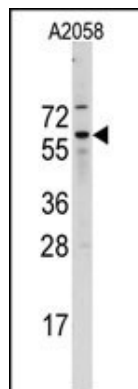
## References

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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).

## Images

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Western blot analysis of Cdc25B Antibody (N-term)(A166)(Cat# AP7256d) in A2058 cell line lysates (35ug/lane). Cdc25B (arrow) was detected using the purified Pab.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.