

**Product Name: Cdc25B (phospho Ser323) Rabbit Polyclonal Antibody**  
**Catalog #: APRab04421**

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## Summary

<b>Production Name</b>	Cdc25B (phospho Ser323) Rabbit Polyclonal Antibody
<b>Description</b>	Rabbit Polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	ELISA,WB,IHC
<b>Reactivity</b>	Human,Mouse,Rat

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Phospho Antibody
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

## Immunogen

<b>Gene Name</b>	CDC25B
<b>Alternative Names</b>	CDC25B; CDC25HU2; M-phase inducer phosphatase 2; Dual specificity phosphatase
<b>Gene ID</b>	Cdc25B
<b>Gene ID</b>	994.0
<b>SwissProt ID</b>	P30305.The antiserum was produced against synthesized peptide derived from human CDC25B around the phosphorylation site of Ser323. AA range:289-338

## Application

<b>Dilution Ratio</b>	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000..
<b>Molecular Weight</b>	70kD

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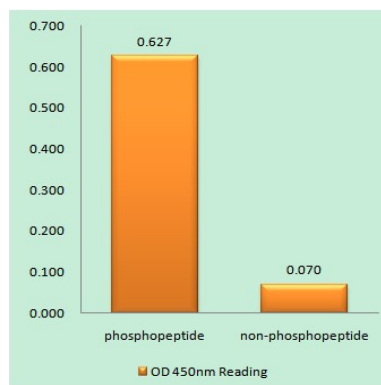
## Background

cell division cycle 25B(CDC25B) Homo sapiens 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. Multiple transcript variants for this gene exist. [provided by RefSeq, Jul 2008],catalytic activity:Protein tyrosine phosphate + H(2)O = protein tyrosine + phosphate.,enzyme regulation:Stimulated by B-type cyclins.,function:Tyrosine protein phosphatase which functions as a dosage-dependent inducer of mitotic progression. Directly dephosphorylates CDC2 and stimulates its kinase activity. The three isoforms seem to have a different level of activity.,PTM:Phosphorylated by BRSK1 in vitro. Phosphorylated by CHEK1, which inhibits the activity of this protein.,similarity:Belongs to the MPI phosphatase family.,similarity:Contains 1 rhodanese domain.,

## Research Area

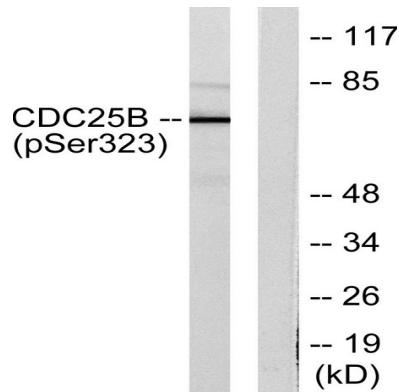
MAPK\_ERK\_Growth;MAPK\_G\_Protein;Cell\_Cycle\_G1S;Cell\_Cycle\_G2M\_DNA;Progesterone-mediated oocyte maturation;

## Image Data

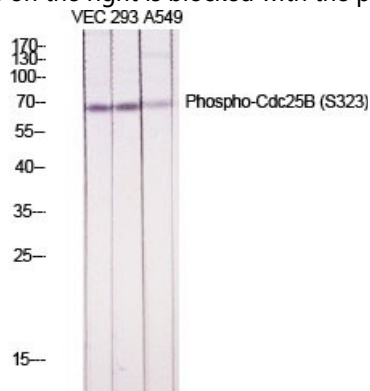


Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right) , using CDC25B (Phospho-Ser323) Antibody

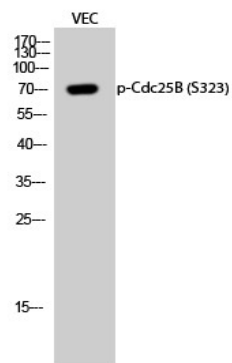
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Western blot analysis of lysates from NIH/3T3 cells treated with PMA 125ng/ml 30', using CDC25B (Phospho-Ser323) Antibody. The lane on the right is blocked with the phospho peptide.



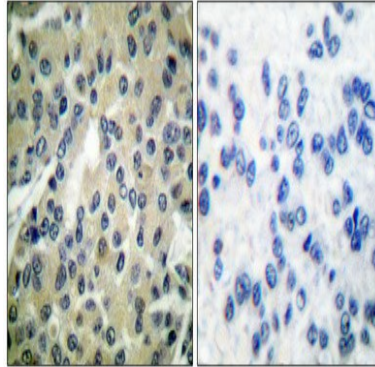
Western Blot analysis of various cells using Phospho-Cdc25B (S323) Polyclonal Antibody diluted at 1: 1000



Western Blot analysis of VEC cells using Phospho-Cdc25B (S323) Polyclonal Antibody diluted at 1: 1000

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Immunohistochemical analysis of paraffin-embedded Human breast cancer. Antibody was diluted at 1:100 (4°, overnight) . High-pressure and temperature Tris-EDTA, pH 8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.

**Note**

For research use only.