Product Name: **Cdc25B (phospho Ser323) Rabbit Polyclonal Antibody**
Catalog #: **APRab04421**
For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,ELISA
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Phosphorylated
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:500,ICC/IF 1:50-1:200,ELISA 1:10000-1:20000
Molecular Weight	70kDa

Antigen Information

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

Background

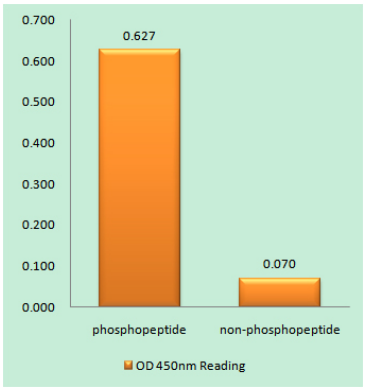
cell division cycle 25B(CDC25B) Homo sapiens CDC25B is a member of the CDC25 family of phosphatases. CDC25B activates

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.,

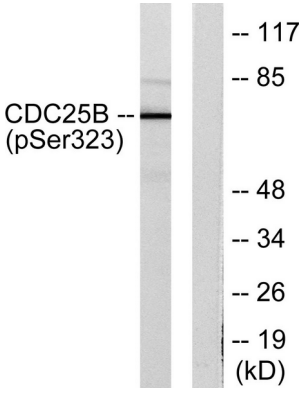
Research Area

MAPK_ERK_Growth;MAPK_G_Protein;Cell_Cycle_G1S;Cell_Cycle_G2M_DNA;Progesterone-mediated oocyte maturation;

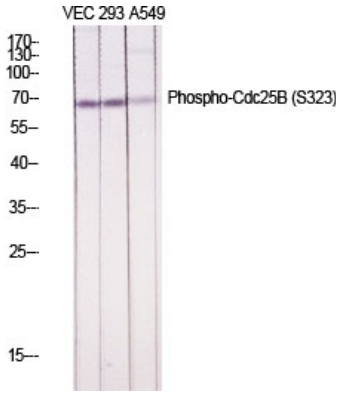
Image Data



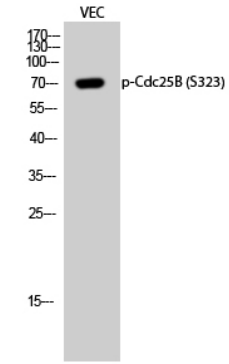
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using CDC25B (Phospho-Ser323) Antibody



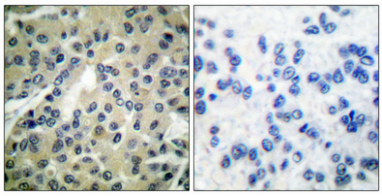
Western blot analysis of lysates from NIH/3T3 cells treated with PMA 125ng/ml 30 ', using CDC25B (Phospho-Ser323) Antibody. The lane on the right is blocked with the phospho peptide.



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



Immunohistochemical analysis of paraffin-embedded Human breast cancer. Antibody was diluted at 1:100（4°,overnight）. High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl （right） obtaned from antibody was pre-absorbed by immunogen peptide.