

**Cdc25B (phospho Ser353) Polyclonal Antibody**

<b>Catalog No :</b>	YP0730
<b>Reactivity :</b>	Human;Monkey
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	Cdc25B
<b>Fields :</b>	>>MAPK signaling pathway;>>Cell cycle;>>Progesterone-mediated oocyte maturation;>>MicroRNAs in cancer
<b>Gene Name :</b>	CDC25B
<b>Protein Name :</b>	M-phase inducer phosphatase 2
<b>Human Gene Id :</b>	994
<b>Human Swiss Prot No :</b>	P30305
<b>Mouse Swiss Prot No :</b>	P30306
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human CDC25B around the phosphorylation site of Ser353. AA range:319-368
<b>Specificity :</b>	Phospho-Cdc25B (S353) Polyclonal Antibody detects endogenous levels of Cdc25B protein only when phosphorylated at S353.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000.. IF 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml

**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

**Observed Band :** 64kD

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

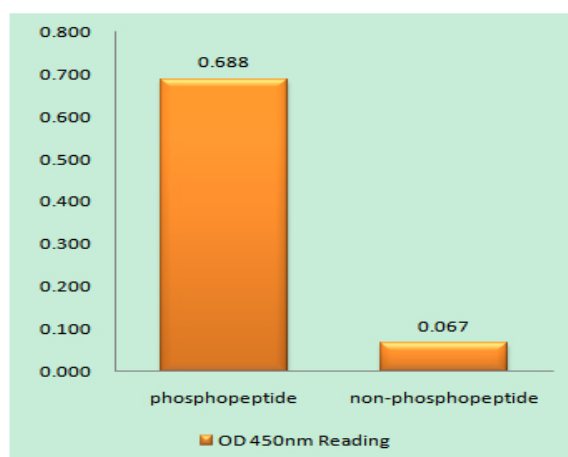
**Background :** cell division cycle 25B(CDC25B) Homo sapiens CDC25B is a member of the CDC25 family of phosphatases. CDC25B activates the cyclin dependent kinase CDC2 by removing two phosphate groups and it is required for entry into mitosis. CDC25B shuttles between the nucleus and the cytoplasm due 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],

**Function :** 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.,

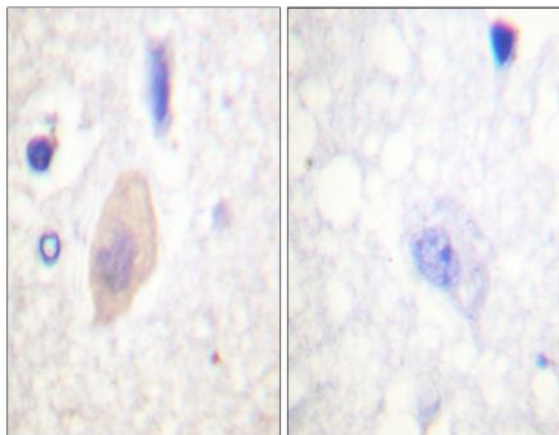
**Subcellular Location :** Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Cytoplasm, cytoskeleton, spindle pole .

**Expression :** Brain,Rectum tumor,

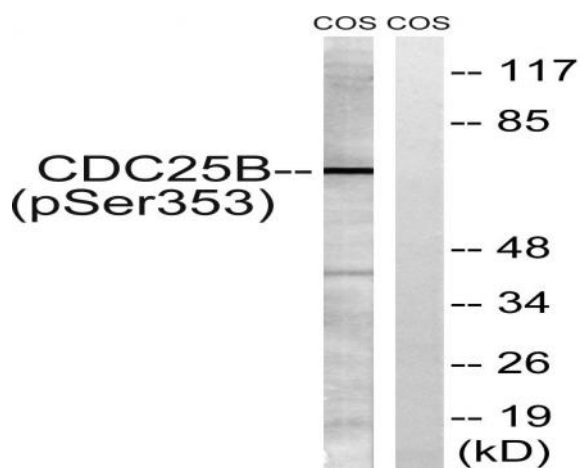
## Products Images



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using CDC25B (Phospho-Ser353) Antibody



Immunohistochemistry analysis of paraffin-embedded human brain, using CDC25B (Phospho-Ser353) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from COS7 cells treated with etoposide 25uM 24h, using CDC25B (Phospho-Ser353) Antibody. The lane on the right is blocked with the phospho peptide.