

## Cdc25C (phospho Thr48) Polyclonal Antibody

<b>Catalog No :</b>	YP0688
<b>Reactivity :</b>	Human;Rat;Mouse;
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	Cdc25C
<b>Fields :</b>	>>Cell cycle;>>Oocyte meiosis;>>Progesterone-mediated oocyte maturation;>>Human immunodeficiency virus 1 infection;>>MicroRNAs in cancer
<b>Gene Name :</b>	CDC25C
<b>Protein Name :</b>	M-phase inducer phosphatase 3
<b>Human Gene Id :</b>	995
<b>Human Swiss Prot No :</b>	P30307
<b>Mouse Swiss Prot No :</b>	P48967
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human CDC25C around the phosphorylation site of Thr48. AA range:14-63
<b>Specificity :</b>	Phospho-Cdc25C (T48) Polyclonal Antibody detects endogenous levels of Cdc25C protein only when phosphorylated at T48.
<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: 1:5000.. 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 :** 80kD

**Cell Pathway :** Cell\_Cycle\_G1S;Cell\_Cycle\_G2M\_DNA;Oocyte meiosis;Progesterone-mediated oocyte maturation;

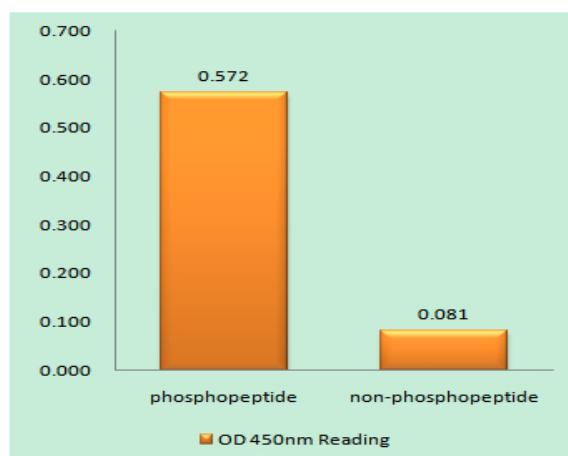
**Background :** cell division cycle 25C(CDC25C) Homo sapiens This gene encodes a conserved protein that plays a key role in the regulation of cell division. The encoded protein directs dephosphorylation of cyclin B-bound CDC2 and triggers entry into mitosis. It also suppresses p53-induced growth arrest. Multiple alternatively spliced transcript variants of this gene have been described. [provided by RefSeq, Dec 2015],

**Function :** catalytic activity:Protein tyrosine phosphate + H(2)O = protein tyrosine + phosphate.,developmental stage:Expressed predominantly in G2 phase.,function:Functions as a dosage-dependent inducer in mitotic control. It is a tyrosine protein phosphatase required for progression of the cell cycle. It directly dephosphorylates CDC2 and activate its kinase activity.,PTM:Phosphorylated by CHK1 on Ser-216. This phosphorylation creates a binding site for 14-3-3 protein and inhibits the phosphatase.,similarity:Belongs to the MPI phosphatase family.,similarity:Contains 1 rhodanese domain.,subunit:Interacts with HIV-1 Vpr, thereby inactivating CDC25C phosphatase activity.,

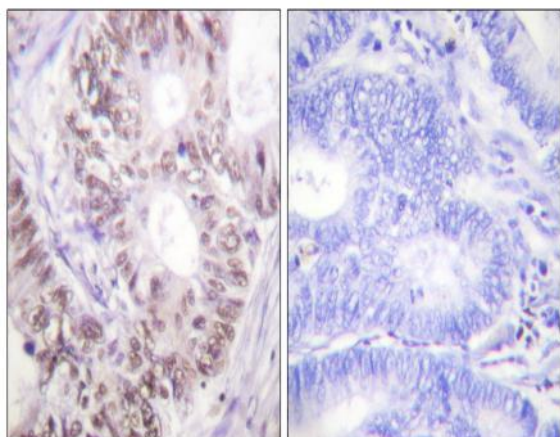
**Subcellular Location :** Nucleus .

**Expression :** Colon carcinoma,Epithelium,Skin,Testis,

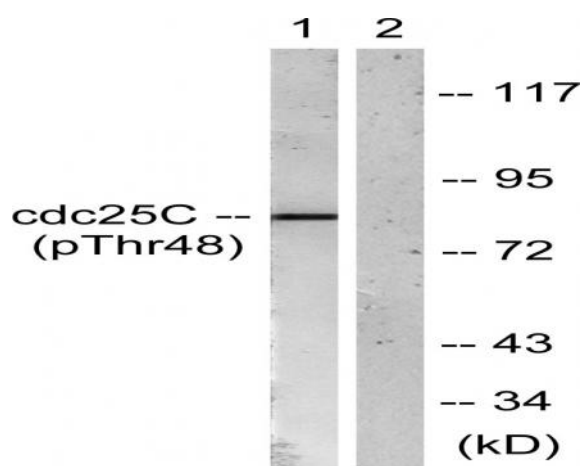
## Products Images



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using CDC25C (Phospho-Thr48) Antibody



Immunohistochemistry analysis of paraffin-embedded human colon carcinoma, using CDC25C (Phospho-Thr48) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from RAW264.7 cells, using CDC25C (Phospho-Thr48) Antibody. The lane on the right is blocked with the phospho peptide.