

Cdc25C (phospho Thr48) Polyclonal Antibody

Catalog No: YP0688

Reactivity: Human; Rat; Mouse;

Applications: WB;IHC;IF;ELISA

Target: Cdc25C

Fields: >>Cell cycle;>>Oocyte meiosis;>>Progesterone-mediated oocyte

maturation;>>Human immunodeficiency virus 1 infection;>>MicroRNAs in cancer

Gene Name: CDC25C

Protein Name: M-phase inducer phosphatase 3

P48967

Human Gene Id: 995

Human Swiss Prot P30307

No:

Mouse Swiss Prot

No:

Immunogen: The antiserum was produced against synthesized peptide derived from human

CDC25C around the phosphorylation site of Thr48. AA range:14-63

Specificity: Phospho-Cdc25C (T48) Polyclonal Antibody detects endogenous levels of

Cdc25C protein only when phosphorylated at T48.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution: WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:5000.. IF 1:50-200

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

1/3



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.,

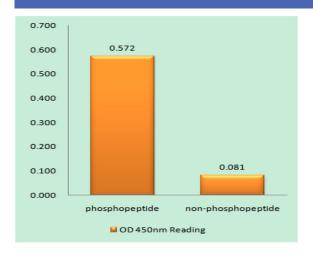
Subcellular Location:

Nucleus.

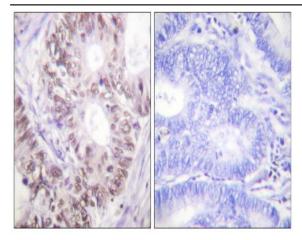
Expression:

Colon carcinoma, Epithelium, Skin, Testis,

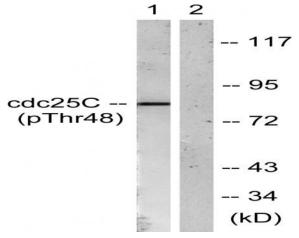
Products Images



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.