

Cdc25C (phospho Ser216) Polyclonal Antibody

Catalog No: YP0058

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

P30307

P48967

Human Gene Id: 995

Human Swiss Prot

No:

Mouse Swiss Prot

No:

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

CDC25C around the phosphorylation site of Ser216. AA range:183-232

Specificity: Phospho-Cdc25C (S216) Polyclonal Antibody detects endogenous levels of

Cdc25C protein only when phosphorylated at S216.

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: 1:10000.. IF 1:50-200

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

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

1/4



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

Observed Band: 53kD

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,

Tag: orthogonal

Sort: 759

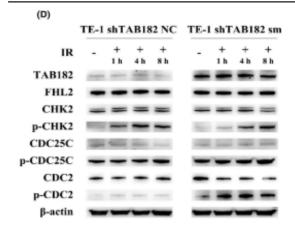
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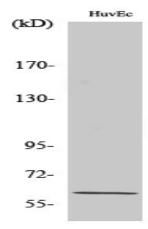
Host: Rabbit

Modifications: Phospho

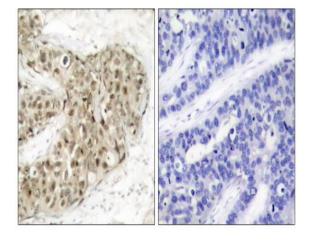
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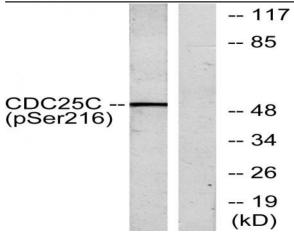
Cao, Yuandong, et al. "Elevated TAB182 enhances the radioresistance of esophageal squamous cell carcinoma through G2-M checkpoint modulation." Cancer Medicine 10.9 (2021): 3101-3112.



Western Blot analysis of HuvEc cells using Phospho-Cdc25C (S216) Polyclonal Antibody diluted at 1:1000



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using CDC25C (Phospho-Ser216) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HUVEC cells treated with serum 20% 30', using CDC25C (Phospho-Ser216) Antibody. The lane on the right is blocked with the phospho peptide.