

## CDC25C Monoclonal Antibody

<b>Catalog No :</b>	YM0142
<b>Reactivity :</b>	Human
<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>	Purified recombinant fragment of human CDC25C expressed in E. Coli.
<b>Specificity :</b>	CDC25C Monoclonal Antibody detects endogenous levels of CDC25C protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:200 - 1:1000. ELISA: 1:10000.. IF 1:50-200
<b>Purification :</b>	Affinity purification
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Molecularweight :</b>	53kD

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

**P References :**

1. Cancer Cell. 2007 Mar;11(3):275-89.
2. Int J Biochem Cell Biol. 2007;39(9):1707-13.
3. Int J Cancer. 2010 May 1;126(9):2199-210.

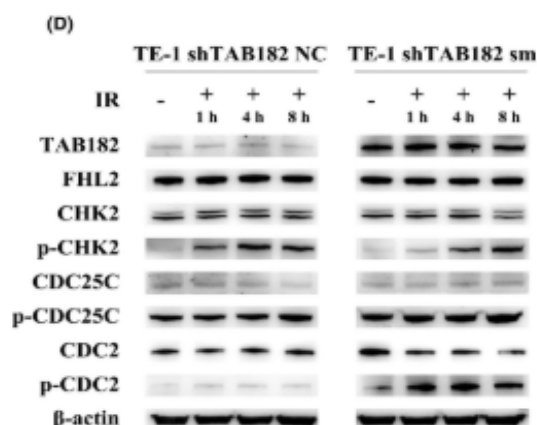
**Background :** cell division cycle 25C(CDC25C) Homo sapiens This gene encodes a conserved protein that plays a key role in the regulation of cell division. The encoded protein directs dephosphorylation of cyclin B-bound CDC2 and triggers entry into mitosis. It also suppresses p53-induced growth arrest. 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.,

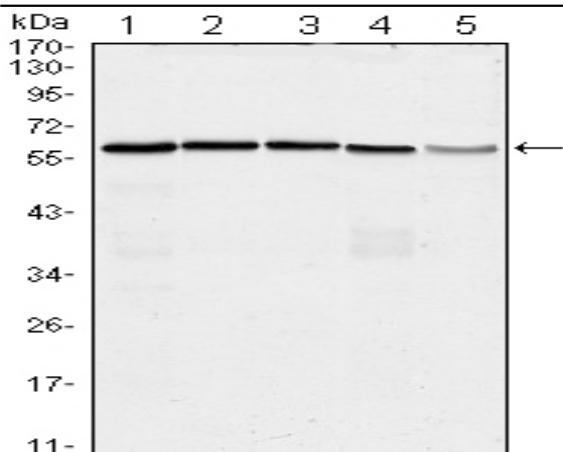
**Subcellular Location :** Nucleus .

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

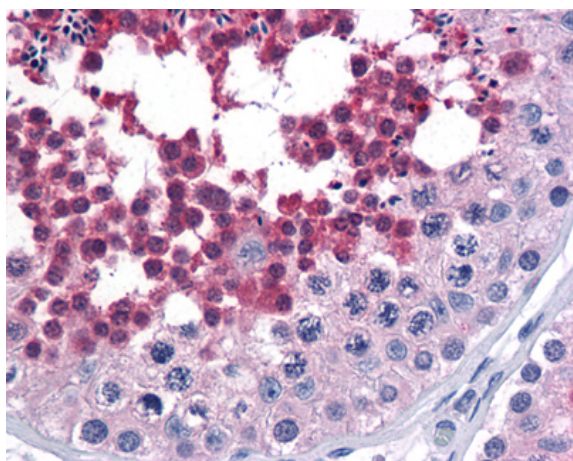
## Products Images



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 using CDC25C Monoclonal Antibody against HeLa (1), K562 (2), PC-3 (3), HEK293 (4) and Raw264.7 (5) cell lysate.



Immunohistochemistry analysis of paraffin-embedded human Testis tissues with AEC staining using CDC25C Monoclonal Antibody.