Best Tools for immunology Research

CDC25C Monoclonal Antibody

Catalog No :	YM0142
Reactivity :	Human
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
Human Gene Id :	995
Human Swiss Prot No :	P30307
Mouse Swiss Prot No :	P48967
Immunogen :	Purified recombinant fragment of human CDC25C expressed in E. Coli.
Specificity :	CDC25C Monoclonal Antibody detects endogenous levels of CDC25C protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	WB 1:500 - 1:2000. IHC 1:200 - 1:1000. ELISA: 1:10000.. IF 1:50-200
Purification :	Affinity purification
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	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.

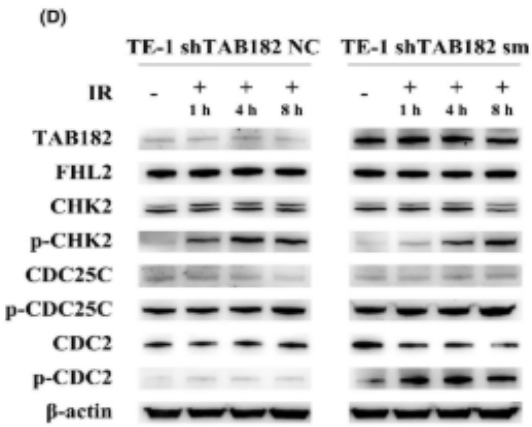
Background : cell division cycle 25C(CDC25C) Homo sapiens This gene encodes a conserved protein that plays a key role in the regulation of cell division. The encoded protein directs dephosphorylation of cyclin B-bound CDC2 and triggers entry into mitosis. It also suppresses p53-induced growth arrest.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

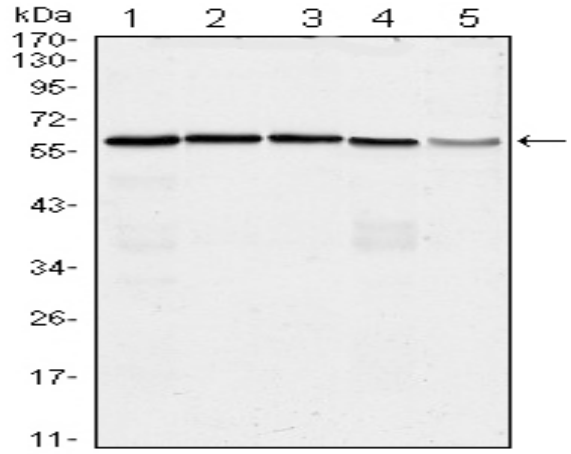
Subcellular Location : Nucleus .

Expression : Colon carcinoma,Epithelium,Skin,Testis,

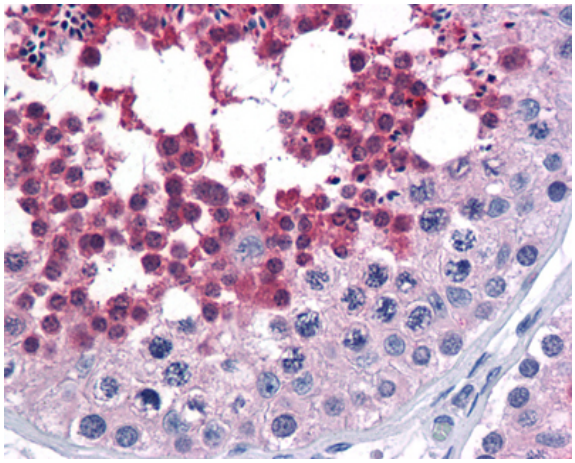
Products Images



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.