10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CDC25C Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant CDC25C.
Catalog # AT1458a

Product Information

Application	WB, IHC, IP, E
Primary Accession	P30307
Other Accession	BC019089
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	3B11
Calculated MW	53365

Additional Information

Gene ID	995
Other Names	M-phase inducer phosphatase 3, Dual specificity phosphatase Cdc25C, CDC25C
Target/Specificity	CDC25C (AAH19089, 21 a.a. ~ 130 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 IP~~N/A E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	CDC25C Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

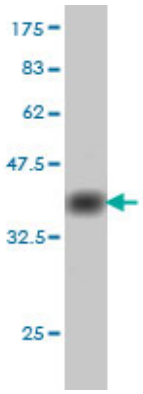
This gene is highly conserved during evolution and it plays a key role in the regulation of cell division. The encoded protein is a tyrosine phosphatase and belongs to the Cdc25 phosphatase family. It directs dephosphorylation of cyclin B-bound CDC2 and triggers entry into mitosis. It is also thought to suppress p53-induced growth arrest. Multiple alternatively spliced transcript variants of this gene have been described, however, the full-length nature of many of them is not known.

References

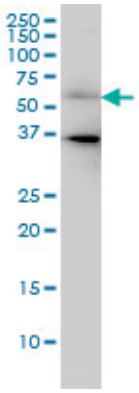
Centrosome-related genes, genetic variation, and risk of breast cancer. Olson JE, et al. Breast Cancer Res

Treat, 2010 May 28. PMID 20508983.Overexpression of CDC25B, CDC25C and phospho-CDC25C (Ser216) in vulvar squamous cell carcinomas are associated with malignant features and aggressive cancer phenotypes. Wang Z, et al. BMC Cancer, 2010 May 25. PMID 20500813.A Large-scale genetic association study of esophageal adenocarcinoma risk. Liu CY, et al. Carcinogenesis, 2010 Jul. PMID 20453000.Cdc25 phosphatases are required for timely assembly of CDK1-cyclin B at the G2/M transition. Timofeev O, et al. J Biol Chem, 2010 May 28. PMID 20360007.Adventitious arsenate reductase activity of the catalytic domain of the human Cdc25B and Cdc25C phosphatases. Bhattacharjee H, et al. Biochemistry, 2010 Feb 2. PMID 20025242.

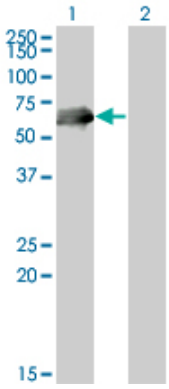
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.73 KDa) .

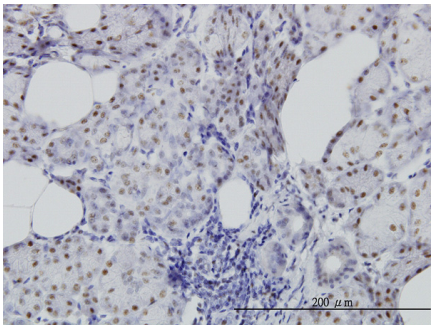


CDC25C monoclonal antibody (M01), clone 3B11 Western Blot analysis of CDC25C expression in HeLa ((Cat # AT1458a)

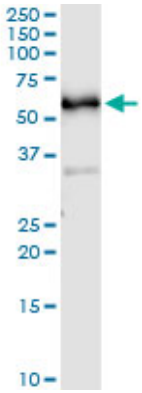


Western Blot analysis of CDC25C expression in transfected 293T cell line by CDC25C monoclonal antibody (M01), clone 3B11.

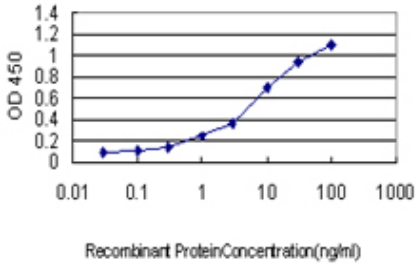
Lane 1: CDC25C transfected lysate(53.312 KDa).
Lane 2: Non-transfected lysate.



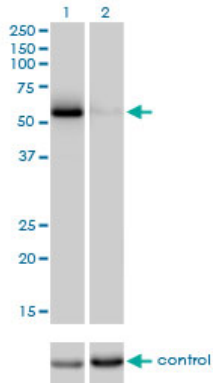
Immunoperoxidase of monoclonal antibody to CDC25C on formalin-fixed paraffin-embedded human salivary gland. [antibody concentration 6 ug/ml]



Immunoprecipitation of CDC25C transfected lysate using anti-CDC25C monoclonal antibody and Protein A Magnetic Bead (U0007), and immunoblotted with CDC25C MaxPab rabbit polyclonal antibody.



Detection limit for recombinant GST tagged CDC25C is approximately 0.1ng/ml as a capture antibody.



Western blot analysis of CDC25C over-expressed 293 cell line, cotransfected with CDC25C Validated Chimera RNAi ((Cat # AT1458a)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.