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CDC25C Antibody (ascites)

Mouse Monoclonal Antibody (Mab)
Catalog # AM1908a

Product Information

Application	WB, E
Primary Accession	P30307
Other Accession	NP_001781.2, NP_073720.1
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1,k
Clone Names	233CT9.6.6
Calculated MW	53365

Additional Information

Gene ID	995
Other Names	M-phase inducer phosphatase 3, Dual specificity phosphatase Cdc25C, CDC25C
Target/Specificity	This CDC25C monoclonal antibody is generated from mouse immunized with CDC25C recombinant protein.
Dilution	WB~~1:1000~8000 E~~Use at an assay dependent concentration.
Format	Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CDC25C Antibody (ascites) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CDC25C
Function	Functions as a dosage-dependent inducer in mitotic control. Tyrosine protein phosphatase required for progression of the cell cycle (PubMed:8119945). When phosphorylated, highly effective in activating G2 cells into prophase (PubMed:8119945). Directly dephosphorylates CDK1 and activates its kinase activity (PubMed:8119945).

Cellular Location Nucleus

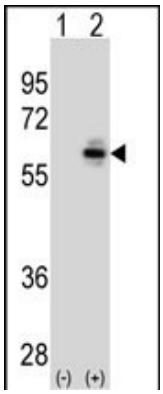
Background

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. [provided by RefSeq].

References

Moon, D.O., et al. Oncol. Rep. 24(1):271-276(2010) Liu, C.Y., et al. Carcinogenesis 31(7):1259-1263(2010) Olson, J.E., et al. Breast Cancer Res. Treat. (2010) In press : Franckhauser, C., et al. PLoS ONE 5 (7), E11798 (2010) : Wang, Z., et al. BMC Cancer 10, 233 (2010) :

Images



Western blot analysis of CDC25C (arrow) using CDC25C (Cat. #AM1908a). 293 cell lysates (2 µg/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the CDC25C gene.