

**CDC25C Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO1375a****Specification**

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**CDC25C Antibody - Product Information**

Application	<b>WB, IHC, FC, ICC, IF</b>
Primary Accession	<a href="#">P30307</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>IgG1</b>
Calculated MW	<b>58kDa KDa</b>

**Description**

Cdc25C is a tyrosine phosphatase and belongs to the Cdc25 phosphatase family. It has been highly conserved during evolution and it plays a key role in the regulation of cell division. It directs dephosphorylation of cyclin B-bound CDC2 and triggers entry into mitosis. It is also thought to suppress p53-induced growth arrest. Cdc25C is mainly expressed in G2 phase. Multiple alternatively spliced transcript variants of this gene have been described, however, the full-length nature of many of them is not known.

**Immunogen**

Purified recombinant fragment of human CDC25C expressed in E. Coli. <br />

**Formulation**

Ascitic fluid containing 0.03% sodium azide. <br />

**CDC25C Antibody - Additional Information**

**Gene ID** 995

**Other Names**

M-phase inducer phosphatase 3, 3.1.3.48, Dual specificity phosphatase Cdc25C, CDC25C

**Dilution**

WB~~1/500 - 1/2000  
IHC~~1/200 - 1/1000  
FC~~1:200~~400  
ICC~~1:200~~1000

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CDC25C Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**CDC25C Antibody - 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:<a href="http://www.uniprot.org/citations/8119945" target="\_blank">8119945</a>). When phosphorylated, highly effective in activating G2 cells into prophase (PubMed:<a href="http://www.uniprot.org/citations/8119945" target="\_blank">8119945</a>). Directly dephosphorylates CDK1 and activates its kinase activity (PubMed:<a href="http://www.uniprot.org/citations/8119945" target="\_blank">8119945</a>).

**Cellular Location**

Nucleus

**CDC25C Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

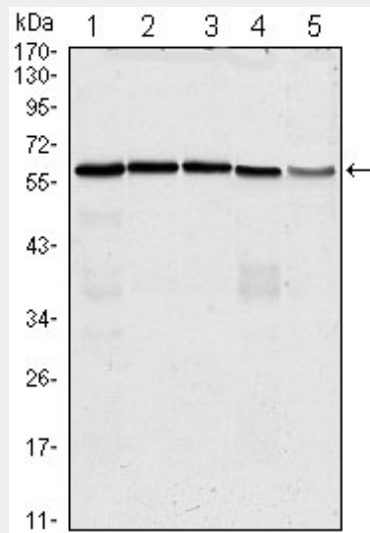
**CDC25C Antibody - Images**

Figure 1: Western blot analysis using anti-CDC25C mAb against Hela (1), K562 (2), PC-3 (3), HEK293 (4) and Raw264.7 (5) cell lysate.

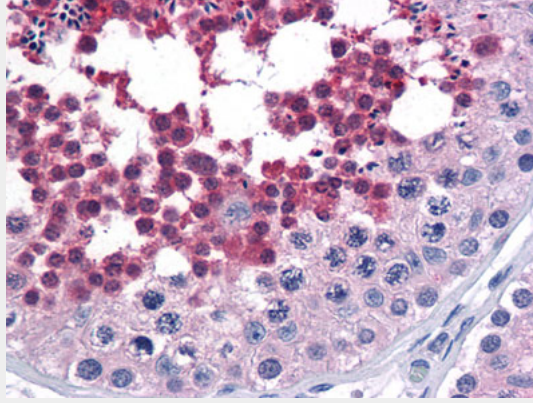


Figure 2: Immunohistochemical analysis of paraffin-embedded human Testis tissues using anti-CDC25C mouse mAb

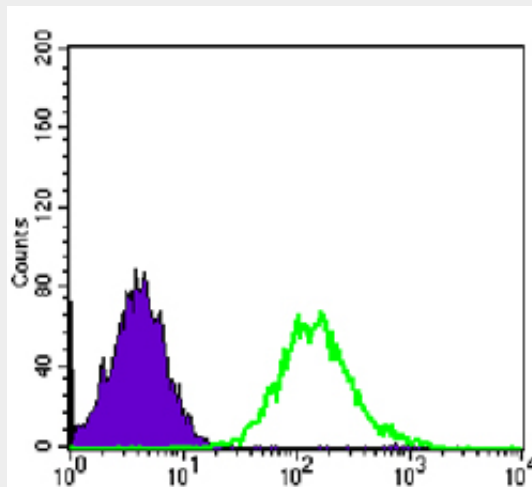


Figure 3: Flow cytometric analysis of PC-2 cells using CDC2 mouse mAb (green) and negative control (purple).

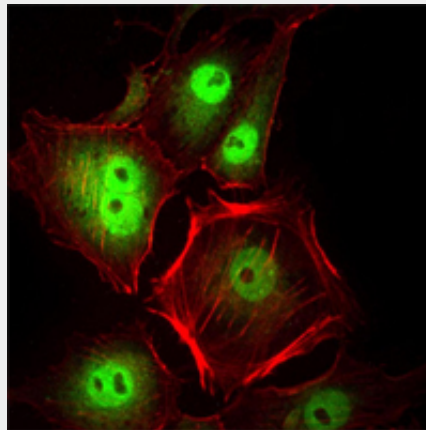


Figure 2: Immunofluorescence analysis of Hela cells using CDC2 mouse mAb (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

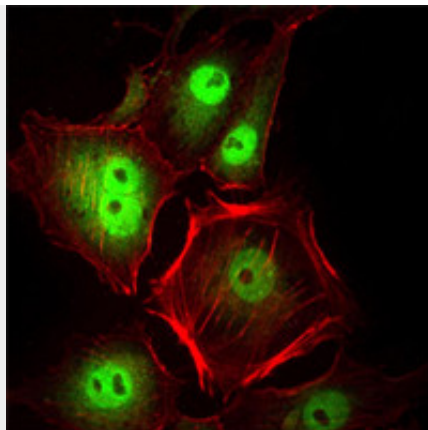


Figure 2: Immunofluorescence analysis of HeLa cells using CDC2 mouse mAb (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

#### **CDC25C Antibody - 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.