

For Research Use Only

# CDC25C Polyclonal antibody

Catalog Number: 16485-1-AP

Featured Product

26 Publications



## Basic Information

### Catalog Number:

16485-1-AP

### Size:

150ul, Concentration: 900 µg/ml by Nanodrop and 367 µg/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG9607

### GenBank Accession Number:

BC019089

### GeneID (NCBI):

995

### UNIPROT ID:

P30307

### Full Name:

cell division cycle 25 homolog C (S. pombe)

### Calculated MW:

473 aa, 53 kDa

### Observed MW:

53 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:2000-1:16000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IP, FC, IHC, ELISA

### Cited Applications:

WB, IP, IHC

### Species Specificity:

human

### Cited Species:

human, mouse

### Positive Controls:

WB: HEK-293 cells, Raji cells, HeLa cells, HepG2 cells, K-562 cells

IP: K-562 cells,

IHC: human colon cancer tissue, human liver cancer tissue

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

The cell division cycle 25 (CDC25) family of proteins are highly conserved dual specificity phosphatases that activate cyclin-dependent kinase (CDK) complexes, which in turn regulate progression through the cell division cycle. CDC25C (cell division cycle 25 homolog C) is one of the 3 isoforms of CDC25 in mammalian cells. It is present in the cytoplasm of asynchronously growing human cells (PMID:10330186). And it may be phosphorylated by its own substrate, an active cdc2-cyclin B complex, to create an autoactivation loop (PMID:7937793). It can be hyperphosphorylated to get the active form of 70 kDa (PMID:18296513). CDC25C has some isoforms with molecular mass of 46-53 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Hui-Ting Liu	34667869	Laryngoscope Investig Otolaryngol	WB
Huan Ma	33573708	Oncol Res	WB
Yonglong Zhang	31599189	Cell Cycle	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

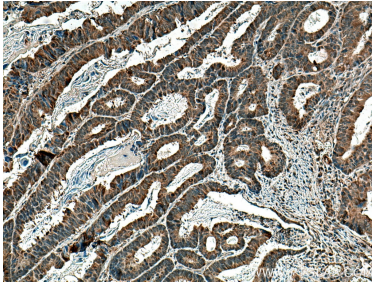
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

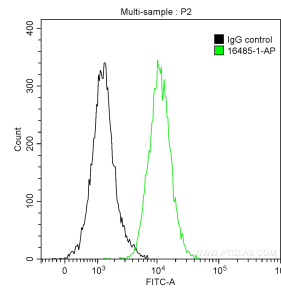
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

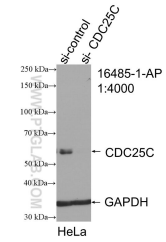
## Selected Validation Data



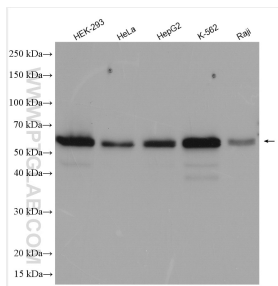
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 16485-1-AP (CDC25C antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



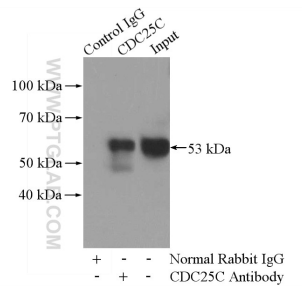
$1 \times 10^6$  K-562 cells were intracellularly stained with 0.2  $\mu$ g Anti-Human CDC25C (16485-1-AP) and CoraLite<sup>®</sup>488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (green), and 0.2  $\mu$ g Control Antibody. Cells were fixed with 90% MeOH.



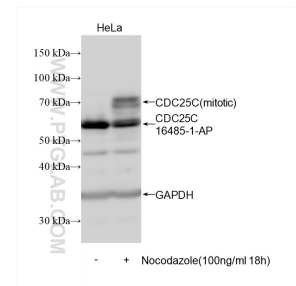
WB result of CDC25C antibody (16485-1-AP; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CDC25C transfected HeLa cells.



Various lysates were subjected to SDS PAGE followed by western blot with 16485-1-AP (CDC25C antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



IP result of anti-CDC25C (IP:16485-1-AP, 4 $\mu$ g; Detection:16485-1-AP 1:1000) with K-562 cells lysate 3600 $\mu$ g.



Non-treated HeLa and nocodazole treated HeLa cells were subjected to SDS PAGE followed by western blot with 16485-1-AP (CDC25C antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.