

For Research Use Only

CDC25C Polyclonal antibody

Catalog Number:16485-1-AP

Featured Product

32 Publications



Basic Information

Catalog Number:

16485-1-AP

Size:

150ul , Concentration: 900 ug/ml by Nanodrop and 367 ug/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 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

Applications

Tested Applications:

WB, IP, IHC, ELISA

Cited Applications:

WB, IHC, IP

Species Specificity:

human

Cited Species:

human, mouse

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

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

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, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

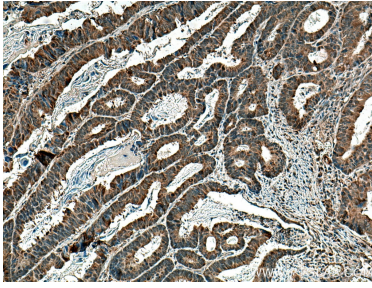
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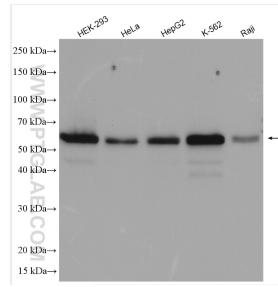
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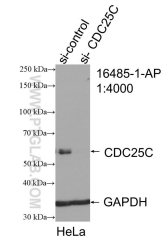
Selected Validation Data



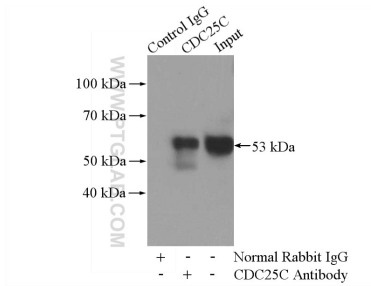
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 16485-1-AP (CDC25C antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



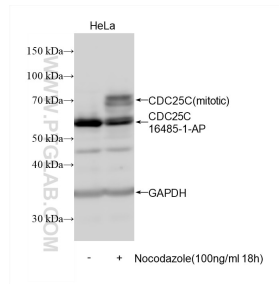
Various lysates were subjected to SDS PAGE followed by western blot with 16485-1-AP (CDC25C antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



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.



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



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.