

For Research Use Only

# CDCA2 Polyclonal antibody

Catalog Number: 17701-1-AP

Featured Product

7 Publications



## Basic Information

### Catalog Number:

17701-1-AP

### Size:

150ul, Concentration: 750 ug/ml by Nanodrop and 320 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG11967

### GenBank Accession Number:

BC036214

### GeneID (NCBI):

157313

### UNIPROT ID:

Q69YH5

### Full Name:

cell division cycle associated 2

### Calculated MW:

863 aa, 95 kDa

### Observed MW:

125 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

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

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IP, IF

### Species Specificity:

human

### Cited Species:

human

### Positive Controls:

WB : Jurkat cells, HepG2 cells, MCF-7 cells

IP : Jurkat cells,

IF/ICC : HepG2 cells,

## Background Information

Cell division cycle associated 2(CDCA2) is a nuclear protein that is a specific regulatory subunit for protein phosphatase 1γ (PP1γ). CDCA2 is a candidate factor involved in preparing mitotic chromatin for the transition to interphase, and controls PP1γ-dependent essential DDR regulation. CDCA2 regulates the DNA damage response(DDR) in cell cycle. In addition, CDCA2 modulates phosphorylation of major mitotic histone H3 in a PP1-dependent manner. We got 125 kDa in western blotting maybe due to its phosphorylation.

## Notable Publications

Author	Pubmed ID	Journal	Application
Honghai Xia	27725724	Sci Rep	IF
Xiaoliang Wang	34131285	Oncogene	WB
Shouping Wang	34103686	Oncogene	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

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

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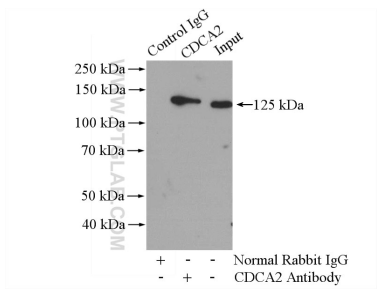
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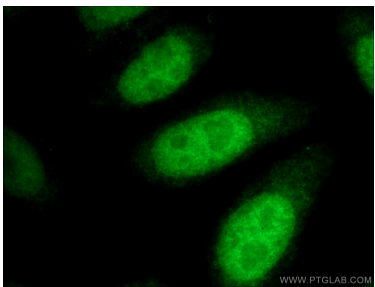
## Selected Validation Data



Jurkat cells were subjected to SDS PAGE followed by western blot with 17701-1-AP (CDCA2 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



IP result of anti-CDCA2 (IP:17701-1-AP, 4ug; Detection:17701-1-AP 1:800) with Jurkat cells lysate 2800ug.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 17701-1-AP (CDCA2 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).