

For Research Use Only

# CDCA2 Polyclonal antibody

Catalog Number: 17701-1-AP

Featured Product

5 Publications



## Basic Information

**Catalog Number:**  
17701-1-AP

**Size:**  
150ul, Concentration: 750 µg/ml by Nanodrop and 313 µg/ml by Bradford method using BSA as the standard;

**Source:**  
Rabbit

**Isotype:**  
IgG

**Immunogen Catalog Number:**  
AG11967

**GenBank Accession Number:**  
BC036214

**GeneID (NCBI):**  
157313

**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 IP and 1:500-1:1000 for WB  
IF 1:50-1:500

## Applications

**Tested Applications:**  
IF, IP, WB, ELISA

**Cited Applications:**  
IF, IHC, IP, WB

**Species Specificity:**  
human

**Cited Species:**  
human

**Positive Controls:**

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

**IP:** Jurkat cells,

**IF:** 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 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)

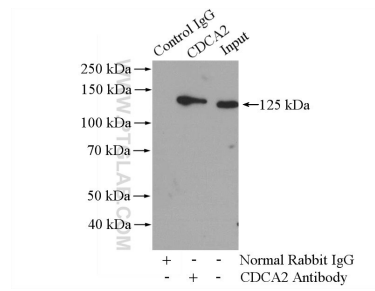
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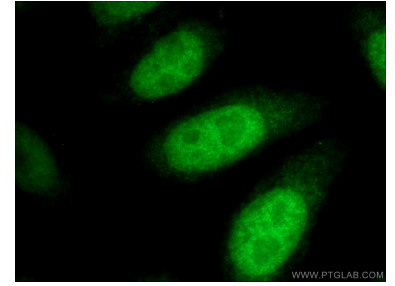
## Selected Validation Data



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 AffiniPure Goat Anti-Rabbit IgG(H+L).