

For Research Use Only

# CDCA2 Polyclonal antibody

Catalog Number: 17701-1-AP **1 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 µg for IP and 1:500-1:1000 for WB

IF 1:50-1:500

## Applications

**Tested Applications:**

IF, IP, WB, ELISA

**Cited Applications:**

IF

**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

## 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

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

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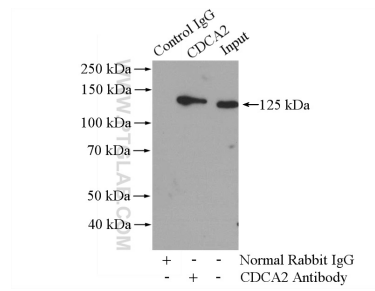
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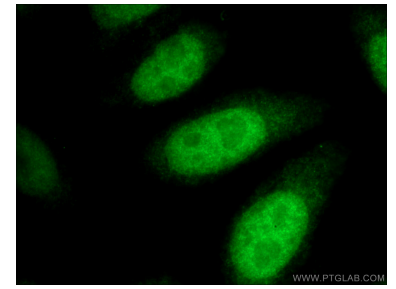
## Selected Validation Data



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