

For Research Use Only

# Cyclin B1 Polyclonal antibody

Catalog Number: 28603-1-AP

Featured Product

76 Publications



## Basic Information

### Catalog Number:

28603-1-AP

### Concentration:

900 µg/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG29426

### GenBank Accession Number:

BC006510

### GeneID (NCBI):

891

### UNIPROT ID:

P14635

### Full Name:

cyclin B1

### Calculated MW:

48 kDa

### Observed MW:

55-60 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:8000

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

IHC 1:200-1:800

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, rat

### Cited Species:

human, mouse, rat, pig, canine, chicken, bovine, goat

**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 : HT-29 cells, HeLa cells, K-562 cells, C6 cells

IP : HeLa cells,

IHC : human skin cancer tissue, human tonsillitis tissue

IF/ICC : HeLa cells, HT-29 cells

## Background Information

Cyclin B1 is a regulatory protein involved in mitosis. The gene product complexes with p34(cdc2) to form the maturation-promoting factor (MPF). Two alternative transcripts have been found, a constitutively expressed transcript and a cell cycle-regulated transcript, that is expressed predominantly during G2/M phase of the cell cycle. The different transcripts result from the use of alternate transcription initiation sites. The antibody is specific to CCNB1. We got a 55-60 kDa band in western blotting maybe due to phosphorylation.

## Notable Publications

Author	Pubmed ID	Journal	Application
Zilu Zhang	34570444	Cancer Biol Med	WB
Taiwei Wang	36169181	Oncol Rep	WB
Huan Ma	33573708	Oncol Res	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

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

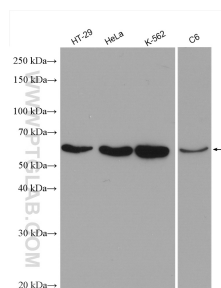
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

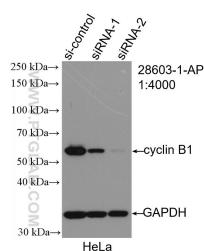
W: [ptgcn.com](http://ptgcn.com)

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

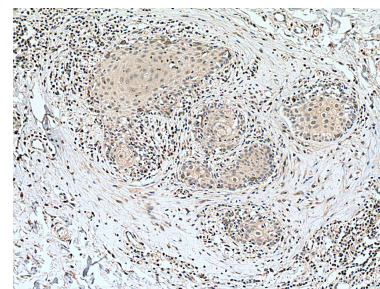
## Selected Validation Data



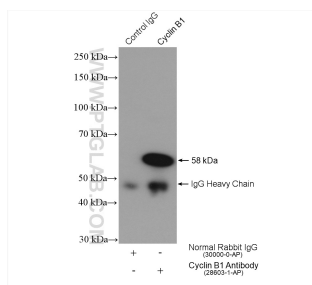
Various lysates were subjected to SDS PAGE followed by western blot with 28603-1-AP (Cyclin B1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



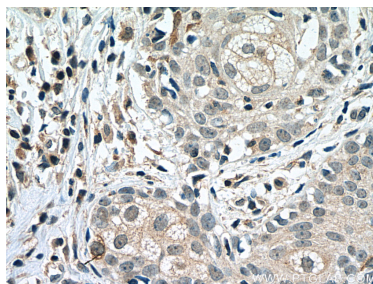
WB result of Cyclin B1 antibody (28603-1-AP; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Cyclin B1 transfected HeLa cells.



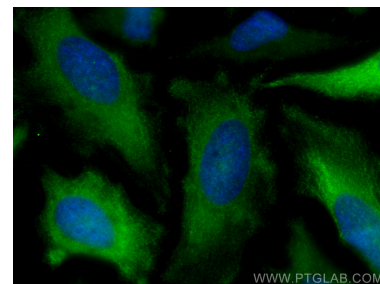
Immunohistochemical analysis of paraffin-embedded human skin cancer tissue slide using 28603-1-AP (Cyclin B1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



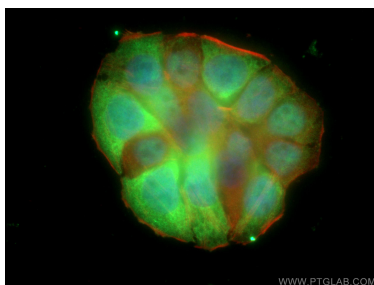
IP result of anti-Cyclin B1 (IP: 28603-1-AP, 4ug; Detection: 28603-1-AP 1:2000) with HeLa cells lysate 1800 ug.



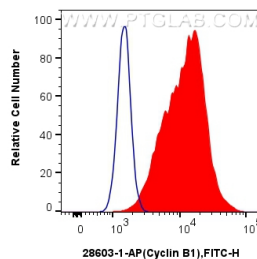
Immunohistochemical analysis of paraffin-embedded human skin cancer tissue slide using 28603-1-AP (Cyclin B1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using Cyclin B1 antibody (28603-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed HT-29 cells using Cyclin B1 antibody (28603-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



1X10<sup>6</sup> Ramos cells were intracellularly stained with 0.4 ug Anti-Human Cyclin B1 (28603-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-O-AP, Clone: ) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).