For Research Use Only

Cyclin B1 Polyclonal antibody

Catalog Number:28603-1-AP Featured Product 60 Publications

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Basic Information

Catalog Number:
28603-1-AP

Size:
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 ug for 1.0-3.0 mg of total protein lysate
IHC 1:200-1:800
IF 1:200-1:800

Applications

Tested Applications:
WB, IP, IF/ICC, FC, IHC, ELISA

Cited Applications:
WB, IF, IHC

Species Specificity:
Human, rat

Cited Species:
human, chicken, rat, mouse, canine, bovine

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 : 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

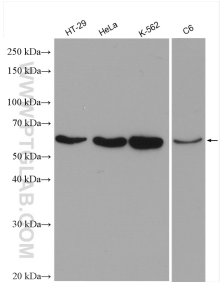
Author	Pubmed ID	Journal	Application
Zilu Zhang	34570444	Cancer Biol Med	WB
Taiwei Wang	36169181	Oncol Rep	WB
Huan Ma	33573708	Oncol Res	WB

Storage

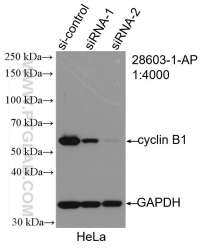
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

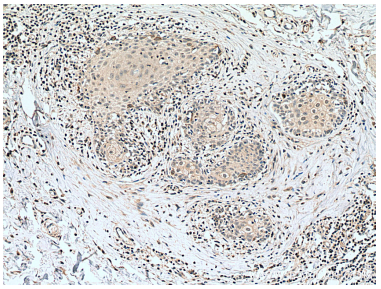
Selected Validation Data



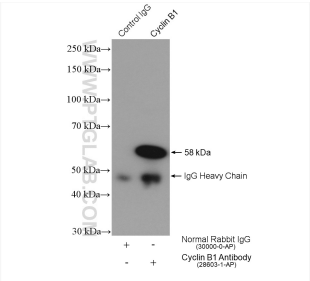
Various lysates were subjected to SDS PAGE followed by western blot with 28603-1-AP (Cyclin B1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



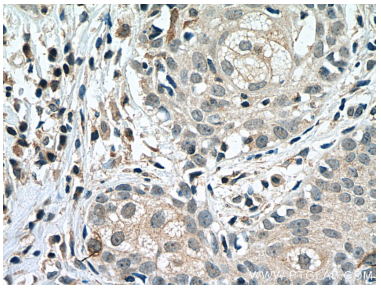
WB result of Cyclin B1 antibody (28603-1-AP; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Cyclin B1 transfected HeLa cells.



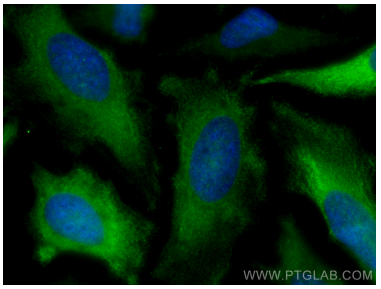
Immunohistochemical analysis of paraffin-embedded human skin cancer tissue slide using 28603-1-AP (Cyclin B1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



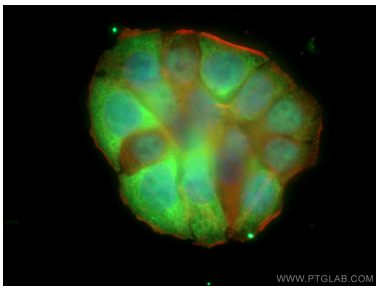
IP result of anti-Cyclin B1 (IP:28603-1-AP, 4ug; Detection:28603-1-AP 1:2000) with HeLa cells lysate 1800 ug.



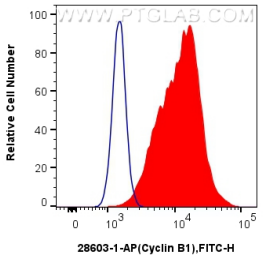
Immunohistochemical analysis of paraffin-embedded human skin cancer tissue slide using 28603-1-AP (Cyclin B1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 AffiniPure 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 AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



1X10^6 Ramos cells were intracellularly stained with 0.4 ug Anti-Human Cyclin B1 (28603-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP, Clone:) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).