For Research Use Only

Cyclin B1 Polyclonal antibody

Catalog Number:55004-1-AP Featured Product 235 Publications

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Basic Information

Catalog Number:
55004-1-AP

Size:
150ul , Concentration: 500 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_031966

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 1:1000-1:4000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IF 1:200-1:800

Applications

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

Cited Applications:
WB, IF, CoIP

Species Specificity:
human, mouse

Cited Species:
human, rat, sheep, mouse, bovine

Positive Controls:

WB : HeLa cells, HepG2 cells, PC-3 cells, Jurkat cells, K-562 cells

IP : HeLa cells,

IF : HeLa cells, U2OS 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
Zijian Zhang	34593753	Cell Death Dis	WB
Xiaoman Chen	30207732	Mol Pharm	WB
Hui-Ting Liu	34667869	Laryngoscope Investig Otolaryngol	WB

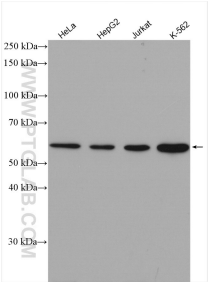
Storage

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

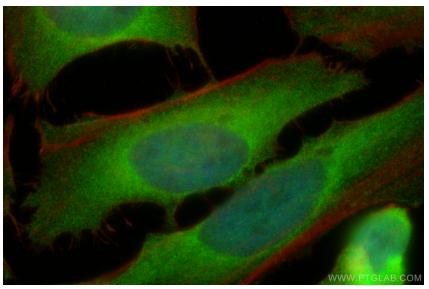
*** 20ul sizes contain 0.1% BSA

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)
E: proteintech@ptglab.com
W: ptglab.com

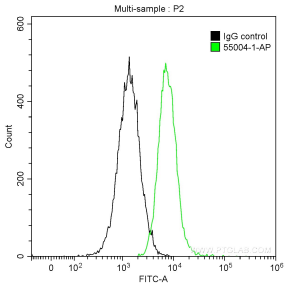
Selected Validation Data



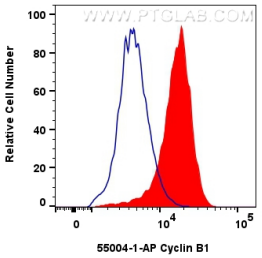
Various lysates were subjected to SDS PAGE followed by western blot with 55004-1-AP (Cyclin B1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



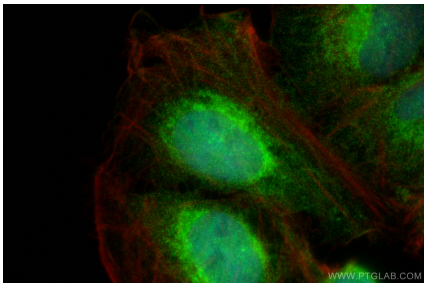
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Cyclin B1 antibody (55004-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).



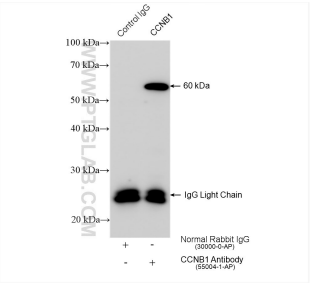
1X10^6 Jurkat cells were intracellularly stained with 0.2 ug Anti-Human Cyclin B1 (55004-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (green), and 0.2 ug Control Antibody. Cells were fixed with 90% MeOH .



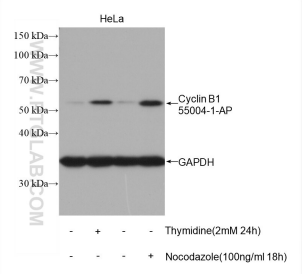
1x10^6 HeLa cells were intracellularly stained with 0.4 ug Cyclin B1 Polyclonal antibody (55004-1-AP) (red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



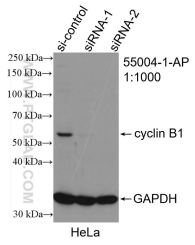
Immunofluorescent analysis of (4% PFA) fixed U2OS cells using Cyclin B1 antibody (55004-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).



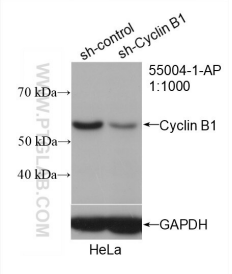
IP result of anti-Cyclin B1 (IP:55004-1-AP, 4ug; Detection:55004-1-AP 1:2000) with HeLa cells lysate 1560 ug.



Non-treated HeLa and thymidine or nocodazole treated HeLa cells were subjected to SDS PAGE followed by western blot with 55004-1-AP (Cyclin B1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.



WB result of Cyclin B1 antibody (55004-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Cyclin B1 transfected HeLa cells.



WB result of Cyclin B1 antibody (55004-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Cyclin B1 transfected HeLa cells.