

**bs-0572R****[ Primary Antibody ]**

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## Cyclin B1 Rabbit pAb

### DATASHEET

<b>Host:</b> Rabbit	<b>Isotype:</b> IgG
<b>Clonality:</b> Polyclonal	
<b>GeneID:</b> 891	<b>SWISS:</b> P14635
<b>Target:</b> Cyclin B1	
<b>Immunogen:</b> KLH conjugated synthetic peptide derived from human Cyclin B1: 271-433/433.	
<b>Purification:</b> affinity purified by Protein A	
<b>Concentration:</b> 1mg/ml	
<b>Storage:</b> 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.	
<b>Background:</b> The protein encoded by this gene 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. The different transcripts result from the use of alternate transcription initiation sites. [provided by RefSeq, Jul 2008].	

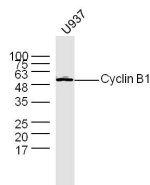
**Applications:** WB (1:500-2000)  
**IHC-P** (1:100-500)  
**IHC-F** (1:100-500)  
**IF** (1:100-500)  
**Flow-Cyt** (1µg/Test)  
**ICC/IF** (1:100)

**Reactivity:** Human, Mouse, Rat  
 (predicted: Cow)

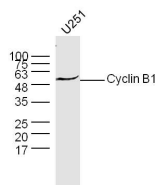
**Predicted MW.:** 48 kDa

**Subcellular Location:** Cytoplasm ,Nucleus

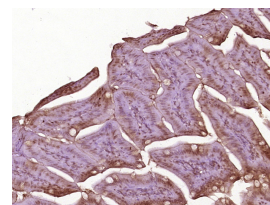
### VALIDATION IMAGES



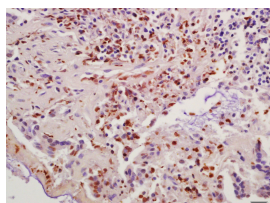
Sample: U937 Cell (Human) Lysate at 30 ug  
 Primary: Anti- Cyclin B1 (bs-0572R) at 1/300  
 dilution Secondary: IRDye800CW Goat Anti-  
 Rabbit IgG at 1/20000 dilution Predicted band  
 size: 48 kD Observed band size: 50 kD



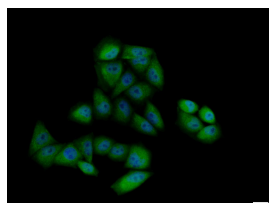
Sample: U251 Cell (Human) Lysate at 30 ug  
 Primary: Anti- Cyclin B1 (bs-0572R) at 1/300  
 dilution Secondary: IRDye800CW Goat Anti-  
 Rabbit IgG at 1/20000 dilution Predicted band  
 size: 48 kD Observed band size: 50 kD



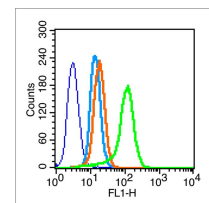
Paraformaldehyde-fixed, paraffin embedded  
 (Mouse small intestine); Antigen retrieval by  
 boiling in sodium citrate buffer (pH6.0) for  
 15min; Block endogenous peroxidase by 3%  
 hydrogen peroxide for 20 minutes; Blocking  
 buffer (normal goat serum) at 37°C for 30min;  
 Antibody incubation with (Cyclin B1) Polyclonal  
 Antibody, Unconjugated (bs-0572R) at 1:400  
 overnight at 4°C, followed by operating  
 according to SP Kit(Rabbit) (sp-0023)  
 instructions and DAB staining.



Tissue/cell: human colon carcinoma; 4%  
 Paraformaldehyde-fixed and paraffin-  
 embedded; Antigen retrieval: citrate buffer (  
 0.01M, pH 6.0 ), Boiling bathing for 15min; Block  
 endogenous peroxidase by 3% Hydrogen  
 peroxide for 30min; Blocking buffer (normal goat



Hela cell; 4% Paraformaldehyde-fixed; Triton  
 X-100 at room temperature for 20 min; Blocking  
 buffer (normal goat serum, C-0005) at 37°C for 20  
 min; Antibody incubation with (Cyclin B1)  
 polyclonal Antibody, Unconjugated (bs-0572R)  
 1:100, 90 minutes at 37°C; followed by a



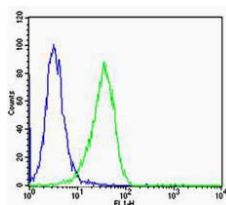
Blank control (blue line): A549 (blue). Primary  
 Antibody (green line): Rabbit Anti-Cyclin B1  
 antibody (bs-0572R) . Dilution: 1µg /10<sup>6</sup> cells;  
 Isotype Control Antibody (orange line): Rabbit  
 IgG . Secondary Antibody (white blue line):  
 F(ab')<sub>2</sub> fragment goat anti-rabbit IgG-FITC.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

serum,C-0005) at 37°C for 20 min; Incubation: Anti-Cyclin B1 Polyclonal Antibody, Unconjugated(bs-0572R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

Dilution: 1µg /test. Protocol The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The cells were then incubated in 1 X PBS/2%BSA/10% goat serum to block non-specific protein-protein interactions followed by the antibody for 15 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Cell: HeLa Concentration:1:100  
Host/Isotype:Rabbit/IgG Flow cytometric analysis of primary antibody (Cat#: bs-0572R) on HeLa(green) compared with isotype control in the absence of primary antibody (blue) followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG(H+L) secondary antibody .

## — SELECTED CITATIONS —

- **[IF=7.65]** Zhang L et al. Silica Nanoparticles exacerbates reproductive toxicity development in high-fat diet-treated Wistar rats. J Hazard Mater. 2019 Oct 1:121361. WB ;Rat. 31606252
- **[IF=5.858]** Luchen Sun. et al. Pretreatment of umbilical cord derived MSCs with IFN-γ and TNF-α enhances the tumor-suppressive effect on acute myeloid leukemia. Biochem Pharmacol. 2022 May;199:115007 WB ;Human. 35307345
- **[IF=5.01]** Ghate, N. B., et al. "Sundew plant, a potential source of anti-inflammatory agents, selectively induces G2/M arrest and apoptosis in MCF-7 cells through upregulation of p53 and Bax/Bcl-2 ratio." Cell Death Discovery 2 (2016). WB ;="Human". 27551490
- **[IF=5.008]** Guo, Hongrui, et al. "Dietary NiCl<sub>2</sub> causes cell cycle arrest in the broiler's kidney." Oncotarget. (2015) 6.34:35964-77. IHC ;="Chicken". 26440151
- **[IF=3.73]** Ghate, Nikhil Baban, et al. "An Antioxidant Extract of Tropical Lichen, Parmotrema reticulatum, Induces Cell Cycle Arrest and Apoptosis in Breast Carcinoma Cell Line MCF-7." PLOS ONE 8.12 (2013): e82293. WB ;="Human". 24358166