SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-Cyclin B1 antibody

Catalog Number: SL23016R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Cyclin B1
Immunogen:	KLH conjugated synthetic peptide derived from human Cyclin B1: 351-433/433
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse(predicted:Rat,Cow,Rabbit,Sheep)
Predicted MW.:	48kDa
Subcellular Location:	The nucleus cytoplasmic
Background:	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]. **Function:** Essential for the control of the cell cycle at the G2/M (mitosis) transition. **Subunit:** Interacts with the CDC2 protein kinase to form a serine/threonine kinase holoenzyme complex also known as maturation promoting factor (MPF). The cyclin subunit imparts substrate specificity to the complex. Binds

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	HEI10. Interacts with catalytically active RALBP1 and CDC2 during mitosis to form an endocytotic complex during interphase. Interacts with CCNF; interaction is required for nuclear localization. **Subcellular Location:** Cytoplasm. Nucleus. Cytoplasm, cytoskeleton, centrosome. **Post-translational modifications:** Ubiquitinated by the SCF(NIPA) complex during interphase, leading to its destruction. Not ubiquitinated during G2/M phases. Phosphorylated by PLK1 at Ser-133 on centrosomes during prophase: phosphorylation by PLK1 does not cause nuclear import. Phosphorylation at Ser-147 was also reported to be mediated by PLK1 but Ser-133 seems to be the primary phosphorylation site. **Similarity:** Belongs to the cyclin family. Cyclin AB subfamily. **Database links:** **Entrez Gene:** 891 Human **Entrez Gene:** 268697 Mouse **Entrez Gene:** 25203 Rat Omim: 123836 Human **SwissProt:** P14635 Human **SwissProt:** P24860 Mouse **SwissProt:** P30277 Rat **Unigene:** 23960 Human **Unigene:** 260114 Mouse **Unigene:** 380027 Mouse **Unigene:** 482545 Mouse **Unigene:** 9232 Rat It mainly appears in G2 phase. Cyclin B is an essential condition for cell cycle regulation. Cyclin B1 is a cell cycle regulatory factor; its abnormal expression will lead to cell cycle disorders, resulting in Tumour formation.

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[VALIDATION IMAGES]

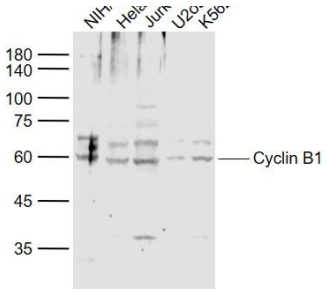


Figure 1. Sample: Lane 1: NIH/3T3 (Mouse) Cell Lysate at 30 ug Lane 2: Hela (Human) Cell Lysate at 30 ug Lane 3: Jurkat (Human) Cell Lysate at 30 ug Lane 4: U2os (Human) Cell Lysate at 30 ug Lane 5: K562 (Human) Cell Lysate at 30 ug Primary: Anti-Cyclin B1 (SL23016R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 48 kD Observed band size: 60 kD

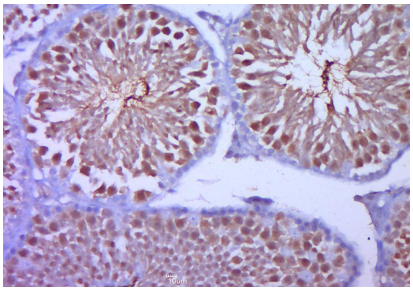


Figure 2. Paraformaldehyde-fixed, paraffin embedded (mouse testis tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Cyclin B1) Polyclonal Antibody, Unconjugated (SL23016R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining

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