

CCNB1 (phospho S126) polyclonal antibody

Catalog # PAB10042 Size 100 ug

Applications

Western Blot (Cell lysate)

Western blot using CCNB1 (phospho S126) polyclonal antibody (Cat # PAB10042) shows detection of a band ~48 kDa corresponding to phosphorylated human CCNB1 (arrowheads) in various whole cell lysates. Lysates tested were lane 1 - HeLa (cervical carcinoma), lane 2 - H23 (lung carcinoma), lane 3 - Hep3b (Hepatocarcinoma), lane 4 - T98G (Glioblastoma) and lane 5 - Daudi (B cell lymphoblast).

Each lane contains approximately 50 ug of lysates, separated by 12% SDS-PAGE using a 5% stack run at 100 volts until the dye front cleared the bottom of the gel.

Transfer occurred overnight at 4°C at 15 mAmps.

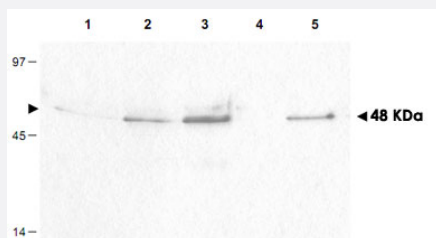
The membrane was blocked with 5% non-fat dry milk in TTBS for 1 h at room temperature followed by addition of a 1:100 dilution of the antibody allowed to react for 2h at room temperature.

After washes with TTBS a 1:5,000 dilution of HRP conjugated Gt-a-Rabbit IgG [H&L] MX was added for 1 h at room temperature.

After additional washes the membrane was incubated with ECL mix 1:1 for ~3 min.

Excess detection solution was drained off and the membrane was exposed to Kodak film X-omat blue XB-1 for about 20 sec

Personnel Communication, Luca Cote, Temple U.



Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of CCNB1.
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding S126 of human CCNB1.
Host	Rabbit
Reactivity	Chimpanzee, Dog, Human, Rat

Specificity	This antibody is specific to phosphorylated human Cyclin B1 protein at the pS126 residue. Minimal reactivity is expected with the non-phosphorylated form of the protein.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:50000) Western Blot (1:100-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM KH ₂ PO ₄ , 150 mM NaCl, pH 7.2 (0.01% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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- Immunoprecipitation

- Enzyme-linked Immunoabsorbent Assay

Gene Info — CCNB1

Entrez GeneID

[891](#)

Protein Accession#	P14635;NP_114172
Gene Name	CCNB1
Gene Alias	CCNB
Gene Description	cyclin B1
Omim ID	123836
Gene Ontology	Hyperlink
Gene Summary	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]
Other Designations	G2/mitotic-specific cyclin B1

Publication Reference

- [Human papillomavirus type 16 E1 E4-induced G2 arrest is associated with cytoplasmic retention of active Cdk1/cyclin B1 complexes.](#)

Davy CE, Jackson DJ, Raj K, Peh WL, Southern SA, Das P, Sorathia R, Laskey P, Middleton K, Nakahara T, Wang Q, Masterson PJ, Lambert PF, Cuthill S, Millar JB, Doorbar J.

Journal of Virology 2005 Apr; 79(7):3998.

- [p53 is a NF-Y- and p21-independent, Sp1-dependent repressor of cyclin B1 transcription.](#)

Innocente SA, Lee JM.

FEBS Letters 2005 Feb; 579(5):1001.

- [Regulation of activation-induced Fas \(CD95/Apo-1\) ligand expression in T cells by the cyclin B1/Cdk1 complex.](#)

Torgler R, Jakob S, Ontsouka E, Nachbur U, Mueller C, Green DR, Brunner T.

The Journal of Biological Chemistry 2004 Sep; 279(36):37334.

Pathway

- [Cell cycle](#)
- [p53 signaling pathway](#)

Disease

- [Adenocarcinoma](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Ovarian Neoplasms](#)