



Rabbit anti Cyclin B1 Polyclonal Antibody

Alternative Name(s): CCNB

Order Information

- **Description:** Cyclin B1
- **Catalogue:** 500-4104
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rabbit
- **Clone:** nan
- **Application:** IHC(P), WB, IP
- **Reactivity:** Hu, Ms, Rt

ANTIGEN PREPARATION

A synthetic peptide derived from C-terminus of human cyclin B1 protein.

BACKGROUND

Cyclin B1 is a regulatory protein involved in mitosis. Like all cyclins, levels of cyclin B1 oscillate over the course of the cell cycle. Just prior to mitosis, a large amount of cyclin B1 is present in the cell, but it is inactive due to phosphorylation of Cdk1 by the Wee1 kinase. The complex is activated by dephosphorylation by the phosphatase Cdc25. Once cyclin B1-Cdk1 is activated, it remains stably active for the rest of mitosis. At the end of mitosis, cyclin B1 is targeted for degradation by the APC through its APC localization sequence permitting to exit mitosis. Cyclin B1/Cdc2 complexes, which appear to be constitutively cytoplasmic during interphase, actually shuttle continually into and out of the nucleus, with the rate of nuclear export exceeding the import rate. Cell growth prior to cell division is restricted by the activity of cyclin-dependent kinase 1 (Cdk1)/cyclin B1 complexes. Cdk1/cyclin B1 activity shields human cells against extrinsic death stimuli and unravel the molecular details of the cross talk between cell cycle and extrinsic apoptotic pathways

PURIFICATION

The Rabbit IgG is purified by Epitope Affinity Purification

FORMULATION

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes 62 kDa of Cyclin B1 Protein. It reacts with human, mouse and rat. The other species are not tested.

STORAGE

The antibodies are stable for 24 months from date of receipt when stored at -20oC to -70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 45.1
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

FOR RESEARCH USE ONLY.

AbboMax, Inc 2528 Qume Drive, Suite 8, San Jose, California 95131, USA
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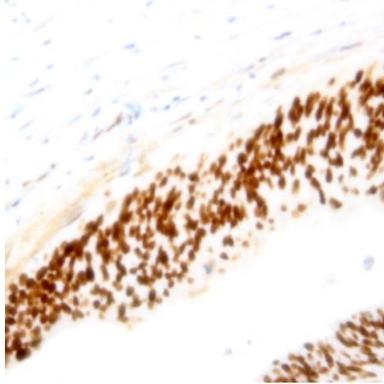
*Optimal dilutions should be determined by researchers for the specific applications.

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DATA ATTACHMENTS



Immunohistochemistry: Human Colon carcinoma (FFPE) stained with Rabbit anti-Cyclin B1 antibody (Cat# 500-4104) at 1:200 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

REFERENCES

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