

Anti-Cyclin B1 Picoband Antibody
Catalog # ABO11811**Specification**

Anti-Cyclin B1 Picoband Antibody - Product Information

Application	WB
Primary Accession	P14635
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for G2/mitotic-specific cyclin-B1(CCNB1) detection. Tested with WB in Human.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Cyclin B1 Picoband Antibody - Additional Information

Gene ID 891

Other Names

G2/mitotic-specific cyclin-B1, CCNB1, CCNB

Calculated MW

48337 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization

Cytoplasm. Nucleus. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome.

Protein Name

G2/mitotic-specific cyclin-B1

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

Immunogen

E.coli-derived human Cyclin B1 recombinant protein (Position: M1-V433). Human Cyclin B1 shares 86% and 85% amino acid (aa) sequences identity with mouse and rat Cyclin B1, respectively.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the cyclin family. Cyclin AB subfamily.

Anti-Cyclin B1 Picoband Antibody - Protein Information

Name CCNB1

Synonyms CCNB

Function

Essential for the control of the cell cycle at the G2/M (mitosis) transition.

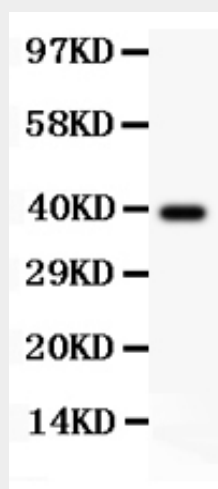
Cellular Location

Cytoplasm. Nucleus. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome

Anti-Cyclin B1 Picoband Antibody - Protocols

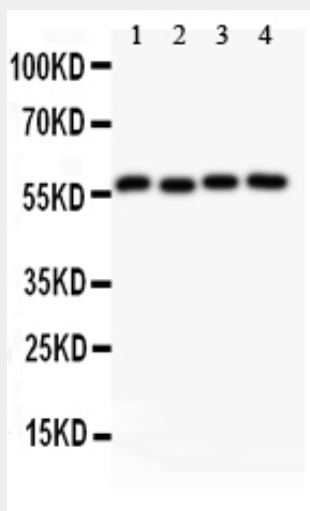
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Cyclin B1 Picoband Antibody - Images

Anti-Cyclin B1 Picoband antibody, ABO11811-1.jpg All lanes: Anti Cyclin B1 (ABO11811) at

0.5ug/mlWB: Recombinant Human Cyclin B1 Protein 0.5ngPredicted bind size: 39KDObserved bind size: 39KD



Anti-Cyclin B1 Picoband antibody, ABO11811-2.jpgAll lanes: Anti Cyclin B1 (ABO11811) at 0.5ug/mlLane 1: HELA Whole Cell Lysate at 40ugLane 2: 293T Whole Cell Lysate at 40ugLane 3: MCF-7 Whole Cell Lysate at 40ugLane 4: COLO320 Whole Cell Lysate at 40ugPredicted bind size: 48KDObserved bind size: 56KD

Anti-Cyclin B1 Picoband Antibody - Background

CCNB also known as Cyclin B1, is a protein that in humans is encoded by the CCNB1 gene, and it is mapped to 5q13.2. 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. CCNB contributes to the switch-like all or none behavior of the cell in deciding to commit to mitosis. Its activation is well-regulated, and positive feedback loops ensure that once the cyclin B1-Cdk1 complex is activated, it is not deactivated.