

Anti-Cyclin B1 Picoband Antibody

Catalog # ABO11811

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.

Additional Information

Gene ID	891
Other Names	G2/mitotic-specific cyclin-B1, CCNB1, CCNB
Calculated MW	48337
Application Details	Western blot, 0.1-0.5 µg/ml, Human
Subcellular Localization	Cytoplasm. Nucleus. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome.
Source	Eukaryota
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.

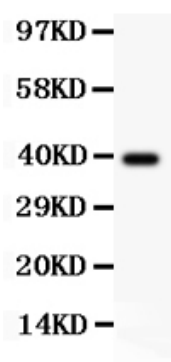
Protein Information

Name	CCNB1
Synonyms	CCNB
Function	Essential for the control of the cell cycle at the G2/M (mitosis) transition (PubMed: 27030811 , PubMed: 17495531 , PubMed: 17495533). Binds and activates cyclin-dependent protein kinase CDK1/CDC2 (PubMed: 41100585).
Cellular Location	Cytoplasm. Nucleus. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome

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.

Images



Anti-Cyclin B1 Picoband antibody, ABO11811-1.jpgAll 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