

Datasheet for ABIN3043482

anti-Cyclin B1 antibody (AA 1-433)

2 Images

17 Publications



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Overview

Quantity:	100 µg
Target:	Cyclin B1 (CCNB1)
Binding Specificity:	AA 1-433
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Cyclin B1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for G2/mitotic-specific cyclin-B1(CCNB1) detection. Tested with WB in Human.
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.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for G2/mitotic-specific cyclin-B1(CCNB1) detection. Tested with WB in Human.</p> <p>Gene Name: cyclin B1</p> <p>Protein Name: G2/mitotic-specific cyclin-B1</p>

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: Cyclin B1 (CCNB1)

Alternative Name: CCNB ([CCNB1 Products](#))

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.

Synonyms: CCNB 1 antibody|CCNB antibody|ccnb1 antibody|CCNB1_HUMAN antibody|G2 mitotic specific cyclin B1 antibody|G2/mitotic-specific cyclin-B1 antibody

Gene ID: 891

UniProt: [P14635](#)

Pathways: [Cell Division Cycle](#), [AMPK Signaling](#), [Mitotic G1-G1/S Phases](#), [M Phase](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, The detection limit for Cyclin B1 is approximately 0.25 ng/lane under reducing conditions.

Notes: Tested Species: Species with positive results.

Other applications have not been tested. Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Handling

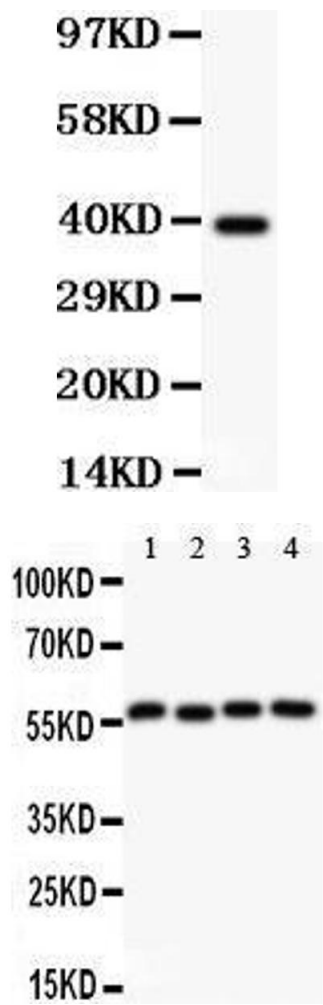
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	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.

Publications

Product cited in:	<p>Guo, Guo, Zhao, Cai: "Active targeting co-delivery system based on hollow mesoporous silica nanoparticles for antitumor therapy in ovarian cancer stem-like cells." in: Oncology reports, Vol. 38, Issue 3, pp. 1442-1450, (2018) (PubMed).</p> <p>Chen, Zhou, Yao, Dai, Zhou, Wang, Zhang: "Dipalmitoylphosphatidic acid inhibits breast cancer growth by suppressing angiogenesis via inhibition of the CUX1/FGF1/HGF signalling pathway." in: Journal of cellular and molecular medicine, Vol. 22, Issue 10, pp. 4760-4770, (2018) (PubMed).</p> <p>Xiao, Dong, Cheng, Mao, Zong, Wu, Wang, Xie, Wang, Lei, Guo: "LRIG2 promotes the proliferation and cell cycle progression of glioblastoma cells in vitro and in vivo through enhancing PDGFRβ signaling." in: International journal of oncology, Vol. 53, Issue 3, pp. 1069-1082, (2018) (PubMed).</p> <p>Yan, Zhang, Jin, Cai, Jia, Liu, Wang, Li, Zhang, Huang, Lai, Wang, Liu, Zeng, Cai, Jiang, Bai: "mTORC1 regulates PTHrP to coordinate chondrocyte growth, proliferation and differentiation." in: Nature communications, Vol. 7, pp. 11151, (2016) (PubMed).</p> <p>Yin, Jiang, Peng, Cui, Zhou, He, Zuo, Ouyang, Fan, Fang: "The molecular mechanism of G2M cell cycle arrest induced by AFB1 in the jejunum." in: Oncotarget, Vol. 7, Issue 24, pp. 35592-35606, (2016) (PubMed).</p>
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There are more publications referencing this product on: [Product page](#)

Images



Western Blotting

Image 1. Anti-Cyclin B1 Picoband antibody, All lanes: Anti Cyclin B1 at 0.5ug/ml WB: Recombinant Human Cyclin B1 Protein 0.5ng Predicted bind size: 39KD Observed bind size: 39KD

Western Blotting

Image 2. Observed bind size: 56KD