

Rabbit anti-Human Cyclin B1 Polyclonal Antibody | anti-CCNB antibody

Anti-Cyclin B1 Antibody

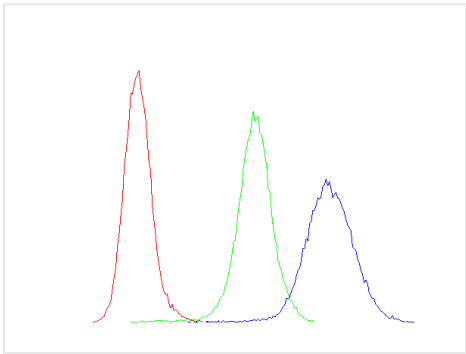
CATALOG # AAA45635	HOST Rabbit	REACTIVITY Human	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

Cyclin B1; Polyclonal Antibody; Anti-Cyclin B1 Antibody; G2/mitotic-specific cyclin-B1; cyclin B1; CCNB 1 antibody; CCNB antibody; ccnb1 antibody; CCNB1_HUMAN antibody; G2 mitotic specific cyclin B1 antibody; G2/mitotic-specific cyclin-B1 antibody; anti-CCNB antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized
Sequence Length	433
Applicable Applications for anti-CCNB antibody	WB (Western Blot)
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.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



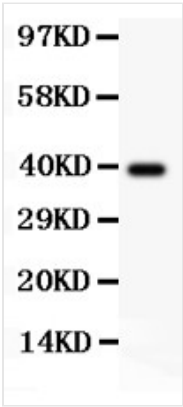
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of THP-1 cells using anti-CCNB1 antibody (AAA45635).Overlay histogram showing THP-1 cells stained with AAA45635 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CCNB1 Antibody (AAA45635,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight[®]488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 2. Western blot analysis of Cyclin B2 using anti-Cyclin B2 antibody (AAA45635).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.lane 1: HELA whole cell lysate,lane 2: 293T whole cell lysate,lane 3: MCF-7 whole cell lysate,lane 4: COLO320 whole cell lysate.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Cyclin B2 antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Cyclin B2 at approximately 56KD. The expected band size for Cyclin B2 is at 48KD.



WB (Western Blot)

Figure 1. Western blot analysis of Cyclin B1 using anti-Cyclin B1 antibody (AAA45635).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours.lane 1: recombinant human cyclin b1 protein 0.5ng.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Cyclin B1 antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Cyclin B1 at approximately 39KD. The expected band size for Cyclin B1 is at 39KD.

ADDITIONAL INFORMATION

Related Product Information for anti-CCNB antibody	Description: Rabbit IgG polyclonal antibody for G2/mitotic-specific cyclin-B1(CCNB) detection. Tested with WB in Human. 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	116176
NCBI GeneID	891
UniProt Accession #	P14635; Q5TZIP; A8K066
Molecular Weight	44,102 Da
NCBI Official Full Name	G2/mitotic-specific cyclin-B1
NCBI Official Synonym Full Names	cyclin B1
NCBI Official Symbol	CCNB1
NCBI Official Synonym Symbols	CCNB
NCBI Protein Information	G2/mitotic-specific cyclin-B1; G2/mitotic-specific cyclin B1
UniProt Protein Name	G2/mitotic-specific cyclin-B1
UniProt Gene Name	CCNB1
UniProt Synonym Gene Names	CCNB
UniProt Entry Name	CCNB1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.