Product datasheet

Anti-Cyclin B1/CCNB1 Antibody

Catalog Number: *PB9104*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-Cyclin B1/CCNB1 Antibody
Gene Name	CCNB1
Source	Rabbit
Isotype	IgG
Species Reactivity	human
Tested Application	WB, IHC-F, ICC/IF, FCM
Contents	500 ug/ml antibody with PBS， 0.02% NaN3 , 1 mg BSA and 50% glycerol.
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.
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	55KD
Dilution Ratios	Western blot(WB): 1:500-2000 Immunohistochemistry in frozen section (IHC-F): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Flow cytometry (FCM): 1-3 μg/1x10^6 cells (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

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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Selected Validation Data

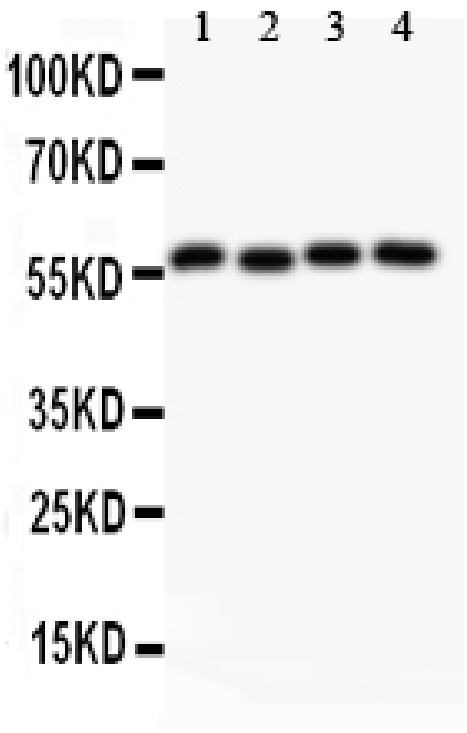

Figure 1. Western blot analysis of anti- CCNB1 antibody (PB9104). The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: Hela whole cell lysates,
Lane 2: 293T whole cell lysates,
Lane 3: MCF-7 whole cell lysates,
Lane 4: COLO320 whole cell lysates.
Use rabbit anti- CCNB1 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for CCNB1 at approximately 55KD. The expected band size for CCNB1 is at 55KD.

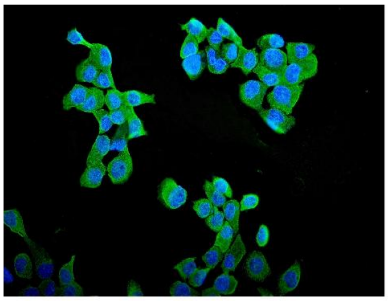

Figure 2.ICC analysis using anti-CCNB1 antibody (PB9104) was detected in immersion fixed A431 cell line . Cells were stained using the Dylight488-conjugated Anti-rabbit IgG Secondary Antibody (green)(Catalog # BA1127) and counterstained with DAPI (blue).

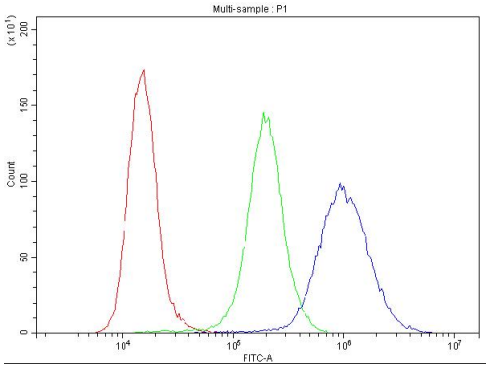

Figure 3. Flow Cytometry analysis of THP-1 cells using anti-CCNB1 antibody (PB9104).Overlay histogram showing THP-1 cells stained with PB9104 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CCNB1 Antibody (PB9104,1µg/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10µg/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a

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control.