Product datasheet

Anti-Cyclin B1/CCNB1 Antibody

Catalog Number: *A00745-1*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd and 4th floors, Optics Valley Biomedical Accelerator,
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Basic Information

Product Name	Anti-Cyclin B1/CCNB1 Antibody
Gene Name	CCNB1
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human,mouse,rat
Tested Application	WB, IHC, FCM, ICC/IF, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human Cyclin B1/CCNB1 recombinant protein (Position: M1-L383).
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	55 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Flow Cytometry (Fixed): 1:50-200 Enzyme linked immunosorbent assay (ELISA): 1:100-1000 (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

G2/mitotic-specific cyclin-B1 is a protein that in humans is encoded by the CCNB1 gene. 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). The encoded protein is necessary for proper control of the G2/M transition phase of the cell cycle.

Reference

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Anti-Cyclin B1/CCNB1 Antibody 被引用在6文献中。

Selected Validation Data

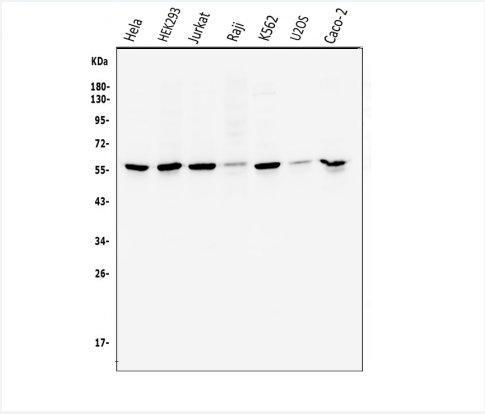

Figure 1. Western blot analysis of Cyclin B1/CCNB1 using anti-Cyclin B1/CCNB1 antibody (A00745-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: Human HELA whole cell lysates,
Lane 2: Human HEK293 whole cell lysates,
Lane 3: Human Jurkat whole cell lysates,
Lane 4: Human Raji whole cell lysates,
Lane 5: Human K562 whole cell lysates,
Lane 6: Human U2OS whole cell lysates,
Lane 7: Human CACO-2 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Cyclin B1/CCNB1 antigen affinity purified polyclonal antibody (A00745-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Cyclin B1/CCNB1 at approximately 55 kDa. The expected band size for Cyclin B1/CCNB1 is at 48 kDa.

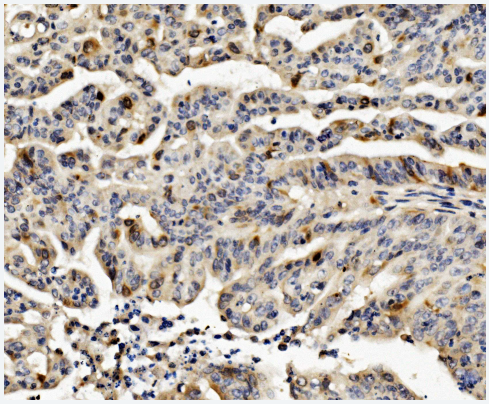

Figure 3. IHC analysis of Cyclin B1/CCNB1 using anti-Cyclin B1/CCNB1 antibody (A00745-1).
Cyclin B1/CCNB1 was detected in a paraffin-embedded section of human rectal cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-Cyclin B1/CCNB1 Antibody (A00745-1) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1022) as the chromogen.

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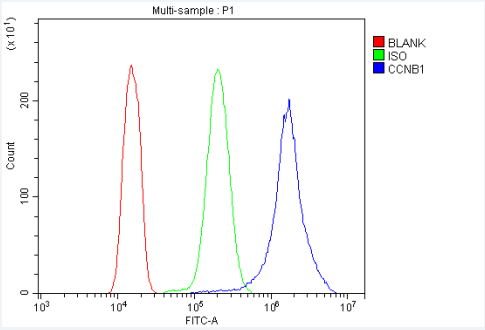

Figure 10. Flow Cytometry analysis of A431 cells using anti-Cyclin B1/CCNB1 antibody (A00745-1).
Overlay histogram showing A431 cells stained with A00745-1 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Cyclin B1/CCNB1 Antibody (A00745-1) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

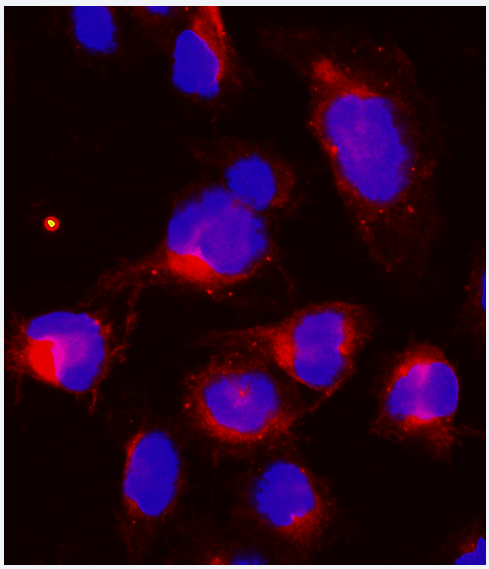

Figure 9. IF analysis of Cyclin B1/CCNB1 using anti-Cyclin B1/CCNB1 antibody (A00745-1).
Cyclin B1/CCNB1 was detected in an immunocytochemical section of U2OS cells. The section was incubated with rabbit anti-Cyclin B1/CCNB1 Antibody (A00745-1) at a dilution of 1:100. Dylight594-conjugated Anti-rabbit IgG Secondary Antibody (red)(Catalog#BA1142) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).