Product datasheet

Anti-Cyclin B1/CCNB1 Antibody

Catalog Number: *A00745-1*

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,mouse,rat
Tested Application	WB,IHC,FCM,ICC/IF,ELISA
Contents	500 ug/ml antibody with PBS， 0.02% NaN3 , 1 mg 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	55KD
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry(Paraffin-embedded Section): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Flow cytometry (FCM): 1-3 µg/1x10^6 cells 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.

Selected Validation Data

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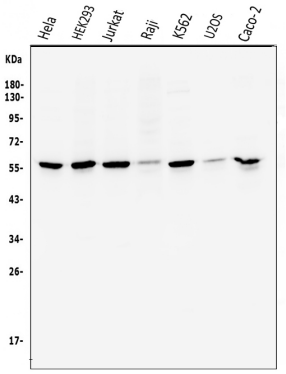

Figure 1. Western blot analysis of anti-CCNB1 antibody (A00745-1). The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: Human HELA whole cell lysates,
Lane 2: Human HEK293 whole cell lysates,
Lane 3: Human Jurkat whole cell lysates,
Lane 4: Human Raji whole cell lysates,
Lane 5: Human K562 whole cell lysates,
Lane 6: Human U2OS whole cell lysates,
Lane 7: Human CACO-2 whole cell lysates,
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.

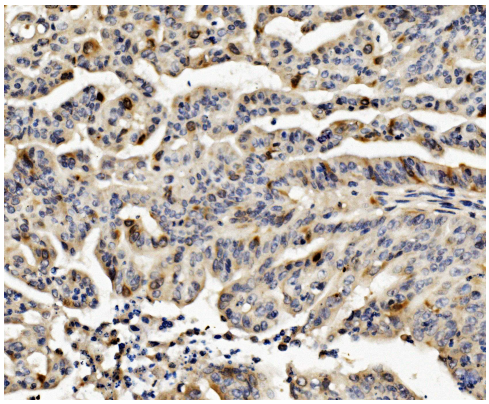

Figure 3.IHC analysis using anti-CCNB1 antibody (A00745-1). detected in paraffin-embedded section of human rectal cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

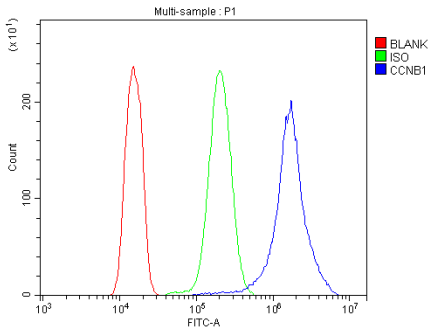

Figure 10.Flow cytometry analysis of A431 cell(1x106) DyLight 488 conjugated goat anti-rabbit IgG(blue) was used as secondary antibody.Isotype control antibody (Green line) was rabbit IgG DyLight 488. Unlabelled sample (Red line).

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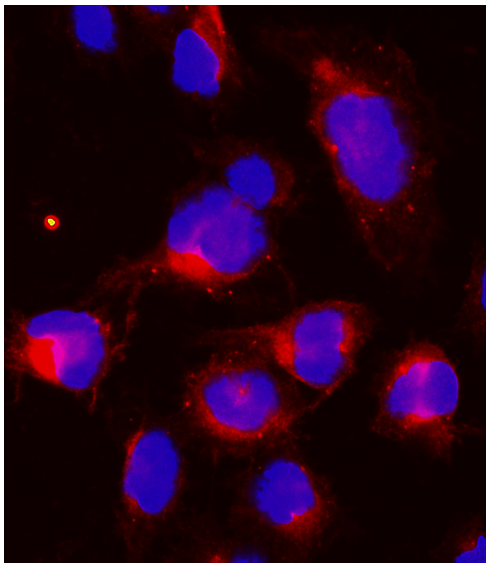

Figure 9.ICC analysis using anti-CCNB1 antibody (A00745-1) was detected in immersion fixed U2OS cell line . Cells were stained using the Dylight594-conjugated Anti-rabbit IgG Secondary Antibody (red)(Catalog#BA1142) and counterstained with DAPI (blue).