

Rabbit anti-Human CCNB1 Polyclonal Antibody | anti-CCNB1 antibody

CCNB1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA306042	Rabbit	Human	Immunoprecipitation, Immunofluorescence, Immunohistochemistry, Western Blot

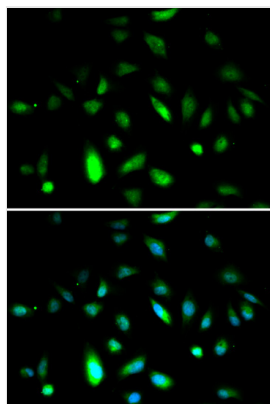
PRODUCT SYNONYMS

CCNB1; Polyclonal Antibody; CCNB1 Antibody; CCNB; cyclinB1; anti-CCNB1 antibody

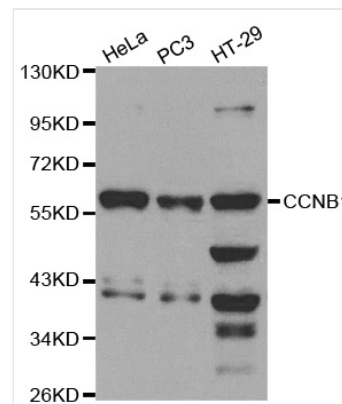
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Specificity	The antibody detects endogenous level of total CCNB1 protein.
Purity/Purification	Antibodies were purified by affinity purification using immunogen.
Form/Format	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	433
Applicable Applications for anti-CCNB1 antibody	IP (Immunoprecipitation), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen Type	Peptide
Immunogen Description	A synthetic peptide of human CCNB1.
Target Name	CCNB1
Preparation and Storage	Store at -20 degree C

IMAGES


IF (Immunofluorescence)

Immunofluorescence analysis of A549 cell using CCNB1 antibody. Blue: DAPI for nuclear staining.


WB (Western Blot)

Western blot analysis of extracts of various cell lines, using CCNB1 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CCNB1 antibody	Cyclins are a family of proteins that activate specific cyclin-dependent kinases required for progression through the cell cycle. The entry of all eukaryotic cells into mitosis is regulated by activation of cdc2/cdk1 at the G2/M transition. This activation is a multi-step process that begins with the binding of the regulatory subunit, cyclin B1, to cdc2/cdk1 to form the mitosis-promoting factor (MPF). MPF remains in the inactive state until phosphorylation of cdc2/cdk1 at Thr161 by cdk activating kinase (CAK) (1,2) and dephosphorylation of cdc2/cdk1 at Thr14/Tyr15 by cdc25C (3-5). Four cyclin B1 phosphorylation sites (Ser126, 128, 133, and 147) are located in the cytoplasmic retention signal (CRS) domain and are thought to regulate the translocation of cyclin B1 to the nucleus at the G2/M checkpoint, promoting nuclear accumulation and initiation of mitosis (6-9). While MPF itself can phosphorylate Ser126 and Ser128, polo-like kinase 1 (PLK1) phosphorylates cyclin B1 preferentially at Ser133 and possibly at Ser147 (6,10). At the end of mitosis, cyclin B1 is targeted for degradation by the anaphase-promoting complex (APC), allowing for cell cycle progression (11). Research studies have shown that cyclin B1 is overexpressed in breast, prostate, and non-small cell lung cancers (12-14).
Product Categories/Family for anti-CCNB1 antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	14327896
NCBI GeneID	891
NCBI Accession #	NP_114172.1
NCBI GenBank Nucleotide #	NM_031966.3
UniProt Accession #	P14635; Q5TZP9; 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
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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ccnb1-antibody-immunoprecipitation-immunofluorescence-immunohistochemistry-western-blot-elisa/306042>