

Rabbit Cyclin B1 Polyclonal Antibody | anti-CCNB1 antibody

Phospho-Cyclin B1 (Ser126) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321523	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

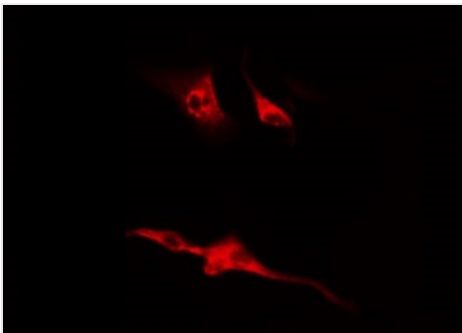
PRODUCT SYNONYMS

Cyclin B1; Polyclonal Antibody; Phospho-Cyclin B1 (Ser126) Antibody; CCNB 1; CCNB; ccnb1; CCNB1_HUMAN; G2 mitotic specific cyclin B1; G2/mitotic-specific cyclin-B1; anti-CCNB1 antibody

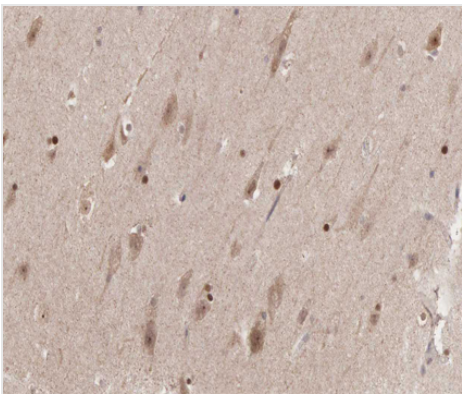
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-Cyclin B1 (Ser126) antibody detects endogenous levels of Cyclin B1 only when phosphorylated at Serine 126
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	433
Applicable Applications for anti-CCNB1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Cyclin B1 around the phosphorylation site of Serine 126
Subcellular Location	Cytoplasm. Nucleus. Cytoplasm > Cytoskeleton > Centrosome.
Tissue Specificity	Accumulates steadily during G2 and is abruptly destroyed at mitosis.
Predicted Cross Reactivity	Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Bovine (91%), Horse (91%), Sheep (91%), Rabbit (91%), Dog (91%)
Conjugation	Unconjugated
Epitope	Phospho Ser126
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

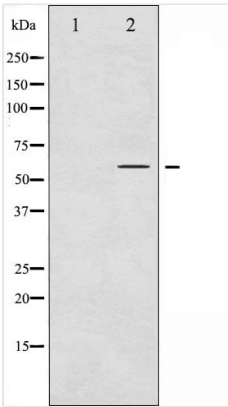
IMAGES



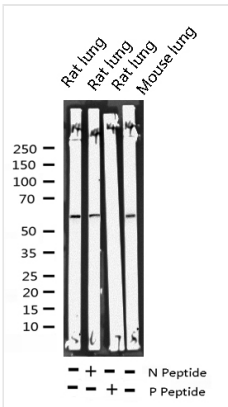
IF (Immunofluorescence)
AAA321523 staining Hela by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



IHC (Immunohistochemistry)
AAA321523 at 1/200 staining human brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of Cyclin B1 phosphorylation expression in EGF treated NIH-3T3 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



WB (Western Blot)
Western blot analysis of Phospho-Cyclin B1 (Ser126) expression in various lysates

ADDITIONAL INFORMATION

Related Product Information for anti-CCNB1 antibody	Description: A member of the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Function: Essential for the control of the cell cycle at the G2/M (mitosis) transition. Subunit Structure: Interacts with the CDC2 protein kinase to form a serine/threonine kinase holoenzyme complex also known as maturation promoting factor (MPF). The cyclin subunit imparts substrate specificity to the complex. Binds HEI10. Interacts with catalytically active RALBP1 and CDC2 during mitosis to form an endocytotic complex during interphase. Interacts with CCNF; interaction is required for nuclear localization. Interacts with CDK5RAP3 (PubMed:15790566). Post-translational Modifications: Ubiquitinated by the SCF(NIPA) complex during interphase, leading to its destruction. Not ubiquitinated during G2/M phases. Phosphorylated by PLK1 at Ser-133 on centrosomes during prophase: phosphorylation by PLK1 does not cause nuclear import. Phosphorylation at Ser-147 was also reported to be mediated by PLK1 but Ser-133 seems to be the primary phosphorylation site. Similarity: Belongs to the cyclin family. Cyclin AB subfamily.
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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	Observed: 60 kDa Predicted: 49 kDa
NCBI Official Full Name	G2/mitotic-specific cyclin-B1 isoform 1
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

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/cyclin-b1-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/321523>