

Product datasheet for AP09514PU-N

Cyclin B1 (CCNB1) Rabbit Polyclonal Antibody

Product data:

OriGene Technologies, Inc.

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Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Immunohistochemistry on Paraffin Sections: 1/50-1/100. Immunofluorescence: 1/100-1/200. Western Blot: 1/500-1/1000.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide sequence around aa.145~149 (A-F-S-D-V) derived from Human Cyclin B1
Specificity:	This Antibody detects endogenous levels of total Cyclin B1 protein.
Formulation:	PBS (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% Sodium Azide and 50% Glycerol State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Affinity Chromatography using epitope-specific peptide
Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	60 kDa
Gene Name:	cyclin B1
Database Link:	<u>Entrez Gene 891 Human</u> <u>P14635</u>



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GRIGENE Cyclin B1 (CCNB1) Rabbit Polyclonal Antibody – AP09514PU-N

Background: In mammals, cyclin B associates with inactive p34 cdc2 which facilitates phosphorylation of p34 cdc2 at amino acids 14 Thr and 15 Tyr. This maintains the inactive state until the end of G2 phase. The inactive cyclin B p34 cdc2 complex continues to accumulate in the cytoplasm until the completion of DNA synthesis, when Cdc25, a specific protein phosphatase, dephosphorylates amino acids 14Thr and 15Tyr of p34 cdc2, rendering the complex active at the G2 / M boundary. This mitotic kinase complex remains active until the metaphase / anaphase transition when cyclin B is degraded. This degradation process is ubiquitin dependent and is necessary for the cell to exit mitosis. Therefore, cyclin B p34 cdc2 plays a critical role in G2 to M transition. 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.

Synonyms:	CCNB1, CCNB, Cyclin-B1
Protein Families:	Druggable Genome, Stem cell - Pluripotency
Protein Pathways:	Cell cycle, Oocyte meiosis, p53 signaling pathway, Progesterone-mediated oocyte maturation

Product images:



Western blot analysis of extracts from HepG2 and HT29 cells using Cyclin B1 antibody

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Immunohistochemical analysis of paraffinembedded human breast carcinoma tissue using Cyclin B1 Antibody

Peptide



Immunofluorescence staining of methanol-fixed HeLa cells using Cyclin B1 Antibody

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