

## Recombinant Human Cyclin A2, His-tagged

**Cat. No.** CCNA2-6798H    **Lot. No.** (See product label)

### SPECIFICATION

|                                |  |
|--------------------------------|--|
| <b>Product Overview</b>        | Recombinant humanCCNA2 protein, fused to His-tag at N-terminus, was expressed in E.coli andpurified by using conventional chromatography techniques.   |
| <b>Species</b>                 | Human  |
| <b>Source</b>                  | E.coli   |
| <b>Description</b>             | CCNA2 belongs to thehighly conserved cyclin family, whose members are characterized by a dramaticperiodicity in protein abundance through the cell cycle. Cyclins function asregulators of CDK kinases. Different cyclins exhibit distinct expression anddegradation patterns which contribute to the temporal coordination of eachmitotic event. In contrast to cyclin A1, which is present only in germ cells,this cyclin is expressed in all tissues tested. This cyclin binds andactivates CDC2 or CDK2 kinases, and thus promotes both cell cycle G1/S andG2/M transitions. |
| <b>Form</b>                    | Liquid. 20mMTris-HCl buffer (pH8.0) containing 20% glycerol 0.15M NaCl, 1mM DTT  |
| <b>Molecular Weight</b>        | 51.1 kDa (456aa)   |
| <b>Purity</b>                  | > 90% by SDS -PAGE   |
| <b>Concentration</b>           | 0.5 mg/ml(determined by Bradford assay)  |
| <b>Sequences of aminoacids</b> | MGSSHHHHHHSSGLVPRGSH MGSFMLGNSA PGPATREAGS ALLALQQTAL<br>QEDQENINPE KAAPVQQPRT RAALAVLKSGNPRGLAQQQRPKTRRVAPLK  |

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 45-1 Ramsey Road, Shirley, NY 11967, USA

DLPVNDEHVT VPPWKANSKQ PAFTIHVDEA EKEAQKKPAE  
 SQKIEREDALAFNSAISLPG PRKPLVPLDY PMDGSFESPHTMDMSIVLED  
 EKPVSVNEVP DYHEDIHTYL REMEVKCKPKVGYMKKQPDI TNSMRAILVD  
 WLVEVGEEYK LQNETLHLAV NYIDRFLSSMSVLRGKLQLV  
 GTAAMLLASKFEEIYPPEVA EFVYITDDTY TTKQVLRMEH LVLKVLTFDL  
 AAPTVNQFLT QYFLHQQPANCKVESLAMFLGELSLIDADP YLKYLPSVIA  
 GAAFHLALYT VTGQSWPESL IRKTGYTLES LKPCMLDLHQTYLKAPQHAQ  
 QSIREKYKNS KYHGVSLNPPETLNL

**Storage**

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**Unitprot ID**

P20248

## GENE INFORMATION

**Gene Name**

CCNA2 cyclin A2 [ Homo sapiens ]

**Official Symbol**

CCNA2

**Synonyms**

CCNA; CCNA2; CCN1; cyclin-A2; cyclin-A; OTTHUMP00000164087

**Gene ID**

890

**mRNA Refseq**

NM\_001237

**Protein Refseq**

NP\_001228

**MIM**

123835

**Chromosome**

4q25-q31

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**Location**

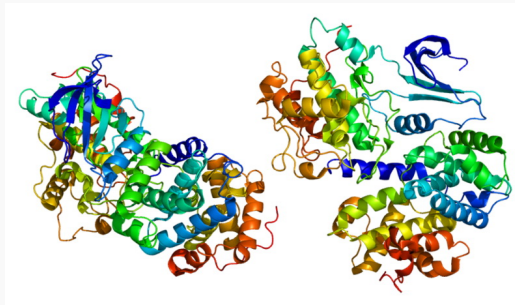
**Pathway**

APC/C-mediated degradation of cellcycle proteins; ATF-2 transcription factor network; B Cell Receptor SignalingPathway; Cell Cycle, Mitotic; Cell cycle; Cyclin A/B1 associated eventsduring G2/M transition; Cyclin A:Cdk2-associated events at S phase entry; DNAREplication; E2F transcription factor network; G1/S Transition; G2/MTransition; IL2 signaling events mediated by STAT5; Id Signaling Pathway;Orc1 removal from chromatin; Progesterone-mediated oocyte maturation;Regulation of APC/C activators between G1/S and early anaphase

**Function**

protein binding; protein kinasebinding

**PDB rendering based on 1e9h.**



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