

Recombinant Human Cyclin A2, His-tagged

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

SPECIFICATION

Product Overview	Recombinant humanCCNA2 protein, fused to His-tag at N-terminus, was expressed in E.coli andpurified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	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.
Form	Liquid. 20mMTris-HCl buffer (pH8.0) containing 20% glycerol 0.15M NaCl, 1mM DTT
Molecular Weight	51.1 kDa (456aa)
Purity	> 90% by SDS -PAGE
Concentration	0.5 mg/ml(determined by Bradford assay)
Sequences of aminoacids	MGSSHHHHHHSSGLVPRGSH MGSFMLGNSA PGPATREAGS ALLALQQTAL QEDQENINPE KAAPVQQPRT RAALAVLKSGNPRGLAQQQRPKTRRVAPLK

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DLPVNDEHVT VPPWKANSKQ PAFTIHVDEA EKEAQKKPAE
 SQKIEREDALAFNSAISLPG PRKPLVPLDY PMDGSFESPHTMDMSIVLED
 EKPVSVNEVP DYHEDIHTYL REMEVKCKPKVGYMKKQPD I TNSMRAILVD
 WLVEVGEEYK LQNETLHLAV NYIDRFLSSMSVLRGKLQLV
 GTAAMLLASKFEEIYPPEVA EFVYITDDTY TTKQVLRMEH LVLKVLTFDL
 AAPT VNQFLT QYFLHQQPANCKVESLAMFLGELSLIDADP YLKYLPSVIA
 GAAFHLALYT VTGQSWPESL IRKTGYTLES LKPC LMDLHQTYLKAPQHAQ
 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.	