

Recombinant Full Length Human CCNA1 Protein, GST-tagged

Cat. No. CCNA1-2957HF Lot. No. (See product label)

SPECIFICATION

Product Overview Human CCNA1 full-length ORF (AAH36346, 1 a.a. - 464 a.a.) recombinant protein with GST-tag at N-terminal.

Species Human

Source In Vitro Cell Free System

ProteinLength 464 amino acids

Description The protein encoded by this gene belongs to 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. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. The cyclin encoded by this gene was shown to be expressed in testis and brain, as well as in several leukemic cell lines, and is thought to primarily function in the control of the germline meiotic cell cycle. This cyclin binds both CDK2 and CDC2 kinases, which give two distinct kinase activities, one appearing in S phase, the other in G2, and thus regulate separate functions in cell cycle. This cyclin was found to bind to important cell cycle regulators, such as Rb family proteins, transcription factor E2F-1, and the p21 family proteins. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Molecular Mass 76.78 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

AA Sequence	<p>METGFPAIMYPGSFIGGWGEEYLSWEGPGLPDFVFQQPVESEAMHCSNPKSGVVL ATVARGPDACQILTRAPLGQDPPQRTVLGLLTANGQYRRTCGQGITRIRCYSYSEN AFPPAGKKALPDCGVQEPPKQGFDIYMDELEQQGDRDSCSVREGMAFEDVYEVDTG TLKSDLHFLLDFNTVSPMLVDSSLLSQSEDISSLGTDVINVTEYAEIYQYLREAEIRH RPKAHYMKKQPDITEGMRTILVDWLVEVGEEYKLRAETLYLAVNFLDRFLSCMSVLR GKQLVGTAAMLLASKYEEIYPPEVDEFVYITDDTYTKRQLLKMEHLLKVLAFDLTV PTTNQFLLQYLRRQGVCRVTENLAKYVAELSLEADPFLKYLPSLIAAAAFCLANYTV NKHFWPETLAAFTGYSLSEIVPCLSELHKAYLDIPHRPQQAIREKYKASKYLCVSLME PPAVLLLQ</p>
Applications	<p>Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array</p>
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	CCNA1 cyclin A1 [Homo sapiens]
Official Symbol	CCNA1
Synonyms	CCNA1; cyclin A1; cyclin-A1;
Gene ID	8900
mRNA Refseq	NM_001111045



Protein Refseq NP_001104515

MIM 604036

UniProt ID P78396

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