

Product datasheet for PH306615

Cyclin A1 (CCNA1) (NM_003914) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CCNA1 MS Standard C13 and N15-labeled recombinant protein (NP_003905)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC206615
Predicted MW:	52.2 kDa
Protein Sequence:	>RC206615 protein sequence Red=Cloning site Green=Tags(s)

METGFPAIMYPGSFIGGWGEEYLSWEGPGLPDFVFQQPVESEAMHCSNPKSGVVLATVARGPDACQILTR
APLGQDPPQRTVLGLLTANGQYRRTCGQGITRIRCYSGSENAFPAGKKALPDCGVQEPKQGFDIYMDE
LEQGDRDSCSVREGMAFEDVYEVDGTGLKSDLHFLDFNTVSPMLVDSLLSQSEDISSLGTDVINVTEY
AEEIYQYLREAEIRHRPKAHYMKKQDPDITEGMRTILVDWLVEVGEEYKLAETLYLAVNFLDRFLSCMSV
LRGKQLVGTAAMLLASKYEEIYPPEVDEFVYITDDTYTKRQLLKMEHLLKVLAFDLTVPTTNQFLLQY
LRRQGVCRVTENLAKYVAELSLLEADPFLKYLPSLIAAAAFCLANYTVNKHFWPETLAAFTGYSLSEIVP
CLSELHKAYLDIPHRPQQAIREKYKASKYLCVSLMEPPAVLLLQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_003905</u>
RefSeq Size:	1965
RefSeq ORF:	1509
Synonyms:	CT146



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Locus ID: 8900
UniProt ID: [P78396](#)
Cytogenetics: 13q13.3

Summary: 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]

Protein Families: Druggable Genome

Protein Pathways: Acute myeloid leukemia, Cell cycle, Pathways in cancer, Progesterone-mediated oocyte maturation

Product images:



Coomassie blue staining of purified CCNA1 protein (Cat# [TP306615]). The protein was produced from HEK293T cells transfected with CCNA1 cDNA clone (Cat# [RC206615]) using MegaTran 2.0 (Cat# [TT210002]).