



Recombinant Rat Cyclin-A1 (Ccna1)

Product Code	CSB-MP718331RA
Abbreviation	Ccna1
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q6AY13
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	≥85% (SDS-PAGE)
Sequence	MRRHSSKSGV ALPPVGQGPD ACQMLTRAQL GQDPPQRTVL GVLTESEQYR RACGQEIATI RCFSGSENVF PAAGKKVLPD NGVSEPAKHG FDIYMDDPEQ GDRDSCPGRE GIVFEDVYEV DTSMLKSDLH FLLDFNTVSP MLVDSTAHQAQ SEEATDFGSD VINVTEYAE E IHRYLREAEV RHRPKAHYMR KQPDITEGMR AILDVWLVEV GEEYKLRTET LYLAVNFLDR FLSCMSVLRG KLQLVGTA AI LLASKYEEIY PPDVDEFVYI TDDTYTKRQL LRMEHLLLKV LAFDLTVPTT NQFLLQYLR R QGVCIRTE NL AKYVAELSL L EADPFLKYLP SLVAAAAYCL ANYIVNRHFW PETLAAFTGY SLNEIVPCLS ELHKACLSIP HRPQQAIREK YKASKYLHVS LMEPPVVLPL Q
Source	Mammalian cell
Target Names	Ccna1
Protein Names	Recommended name: Cyclin-A1
Expression Region	1-421
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	full length protein
Target Details	This protein 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.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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