



# Recombinant Rat G1/S-specific cyclin-E1 (Ccne1)

<b>Product Code</b>	CSB-EP004817RA
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P39949
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	MPRERKERDS KDHTKMKEEG GSDLSVRSRK RKPVPVFLQ DPDEEIAKID KTVKSQDSSQ PWDDDSACVD PCSFIPTPNK EEDNELEYPK TAFQPRKIRP PRASPLPVLN WANREEVWRI MLNKEKTYLR DEHFLQRHPL LQARMRAVLL DWLMEVCEVY KLHRETFYLA QDFFDRYMAS QQNIKTLLQ LIGISALFIA SKLEEIYPPK LHQFAYVTDG ACGSGDEILTM ELMMMALKKW RLSPLTIVSW LNVVYQVAYV NDTGEVLMPQ YPQQVFVQIA ELLDLCVLDV GCLEFPYGVL AASALYHFSS LELMQKVSGY QWCDIEKCVK WMVPFAMVIR EMGSSKCLKHF RGVPMEDSHN IQTHTNSLDL LDKAQAKKAI LSEQNRISPP PSGVLTPPHS SKKQSSEQET E
<b>Source</b>	E.coli
<b>Target Names</b>	Ccne1
<b>Protein Names</b>	Recommended name: G1/S-specific cyclin-E1
<b>Expression Region</b>	1-411
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	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. This cyclin forms a complex with and functions as a regulatory subunit of CDK2, whose activity is required for cell cycle G1/S transition. This protein accumulates at the G1-S phase boundary and is degraded as cells progress through S phase. Overexpression of this gene has been observed in many tumors, which results in chromosome instability, and thus may contribute to tumorigenesis. This protein was found to associate with, and be involved in, the phosphorylation of NPAT protein (nuclear protein mapped to the ATM locus), which participates in cell-cycle regulated histone gene expression and plays a critical role in promoting cell-cycle progression in the absence of pRB. Two alternatively spliced transcript variants of this gene, which encode distinct isoforms, have been described. Two additional splice variants were reported but detailed nucleotide sequence information is not yet



available.

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**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.

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**Shelf Life**

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.