



# Recombinant Rat G1/S-specific cyclin-D1 (Ccnd1)

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| <b>Product Code</b>      | CSB-EP004811RA   |
| <b>Storage</b>           | Store at -20°C, for extended storage, conserve at -20°C or -80°C.  |
| <b>Uniprot No.</b>       | P39948   |
| <b>Product Type</b>      | Recombinant Protein  |
| <b>Immunogen Species</b> | Rattus norvegicus (Rat)  |
| <b>Purity</b>            | ≥85% (SDS-PAGE)  |
| <b>Sequence</b>          | MEHQLLCCEV ETIRRAYPDT NLLNDRVLRA MLKTEETCAP SVSYFKCVQR<br>EIVPSMRKIV ATWMLLEVCEE QKCEEEVFPL AMNYLDRFLS LEPLKKSRLQ<br>LLGATCMFVA SKMKETIPLT AEKLCIYTDN SIRPEELLQM ELLLVNKLKW<br>NLAAMTPHDF IEHFLSKMPE ADENKQIIRK HAQTFVALCA TDVKFISNPP<br>SMVAAGSVVA AMQGLNLGSP NNFLSCYRRT HFLSRVIKCD PDCLRACQEQ<br>IEALLESSLR QAQQNIDPKA TEEEGEVEEE AGLACTPTDV RDVDI   |
| <b>Source</b>            | E.coli   |
| <b>Target Names</b>      | Ccnd1  |
| <b>Protein Names</b>     | Recommended name: G1/S-specific cyclin-D1  |
| <b>Expression Region</b> | 1-295  |
| <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 throughout 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 CDK4 or CDK6, whose activity is required for cell cycle G1/S transition. This protein has been shown to interact with tumor suppressor protein Rb and the expression of this gene is regulated positively by Rb. Mutations, amplification and overexpression of this gene, which alters cell cycle progression, are observed frequently in a variety of tumors and may contribute to tumorigenesis. |
| <b>Reconstitution</b>    | 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.  |
| <b>Shelf Life</b>        | 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.