

Recombinant Human CCND1

Cat. No. CCND1-27756TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length Human Cyclin D1 with an N-terminal proprietary tag. MW ~61kDa. Genbank Number:
Species	Human
Source	E.coli
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 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.
Form	Liquid
Storage buffer	Preservative: None Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM PMSF, pH 7.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequence
Similarities Belongs to the cyclin family. Cyclin D subfamily.

GENE INFORMATION

Gene Name [CCND1 cyclin D1 \[Homo sapiens \]](#)

Official Symbol [CCND1](#)

Synonyms CCND1; cyclin D1; BCL1, cyclin D1 (PRAD1: parathyroid adenomatosis 1) , D11S287E, PRAD1; G1/S-specific cyclin-D1; B cell CLL/lymphoma 1; G1/S specific cyclin D1; parathyroid adenomatosis 1; U21B31;

Gene ID [595](#)

mRNA Refseq [NM_053056](#)

Protein Refseq [NP_444284](#)

MIM [168461](#)

Uniprot ID [P24385](#)

Chromosome Location 11q13

Pathway ATF-2 transcription factor network, organism-specific biosystem; Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Bladder cancer, organism-specific biosystem;

Function cyclin-dependent protein kinase regulator activity; enzyme binding; protein binding;

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