

Recombinant Human Cyclin D1, GST-tagged

Cat. No. CCND1-1444H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human CyclinD1 was expressed in <i>E. coli</i> cells using an N-terminal GST tag. MW = 61 kDa.
Species	Human
Source	<i>E. coli</i>
Description	CyclinD1 is a member of the cyclin family of proteins that are important regulators cyclin-dependent protein kinases (CDKs). CyclinD1 forms a complex and functions as a regulatory subunit of CDK4 or CDK6 which are important during cell cycle G1/S transition. CyclinD1 has been shown to interact with the tumor suppressor protein Rb and the expression of CyclinD1 is positively regulated by Rb. Mutations, amplification and overexpression of CyclinD1 have been frequently observed in a variety of tumors and suggesting a role of this protein in tumorigenesis.
Sequence	Full-length.
Applications	Western Blot.
Storage And Stability	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

GENE INFORMATION

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Gene Name	CCND1 cyclin D1 [Homo sapiens]
Synonyms	CCND1; cyclin D1; BCL1; PRAD1; U21B31; D11S287E; B-cell CLL/lymphoma 1; G1/S-specific cyclin D1; cyclin D1 (PRAD1: parathyroid adenomatosis 1); parathyroid adenomatosis 1; BCL-1 oncogene; PRAD1 oncogene
Gene ID	595
mRNA Refseq	NM_053056
Protein Refseq	NP_444284
MIM	168461
UniProt ID	P24385
Chromosome Location	11q13
Pathway	Acute myeloid leukemia; Bladder cancer; Cell cycle; Chronic myeloid leukemia; Colorectal cancer; Endometrial cancer; Focal adhesion; Glioma; Jak-STAT signaling pathway; Melanoma; Non-small cell lung cancer; Pancreatic cancer; Pathways in cancer; Prostate cancer; Small cell lung cancer; Thyroid cancer; Wnt signaling pathway; p53 signaling pathway
Function	cyclin-dependent protein kinase regulator activity; protein complex binding; protein kinase activity; protein kinase binding

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