

Datasheet for ABIN6699739

Cyclin D1 Protein (CCND1) (GST tag)[Go to Product page](#)**1** Publication

Overview

Quantity:	20 µg
Target:	Cyclin D1 (CCND1)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Cyclin D1 protein is labelled with GST tag.
Application:	Western Blotting (WB)

Product Details

Purpose:	CyclinD1 recombinant protein-GST fusion protein
Purification:	Recombinant full-length human CyclinD1 was expressed in E. coli cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >85% by densitometry.
Purity:	>85%

Target Details

Target:	Cyclin D1 (CCND1)
Alternative Name:	CCND1 (CCND1 Products)
Background:	Synonyms: BCL1, PRAD1, U21B31, D11S287E, G1/S-specific cyclin-D1, B-cell lymphoma 1 protein, BCL-1 oncogene, PRAD1 oncogene Background: CyclinD1 is a member of the cyclin family of proteins that are important regulators

Target Details

cyclin-dependent protein kinases (CDKs) (1). 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 (2). CyclinD1 is ideal for investigators involved in Signaling Proteins, Cell Cycle Proteins, Cancer, and Cell Cycle research.

NCBI Accession: [NM_053056](#)

Pathways: [PI3K-Akt Signaling](#), [Cell Division Cycle](#), [Mitotic G1-G1/S Phases](#), [ER-Nucleus Signaling](#)

Application Details

Application Notes: Western_Blot_Dilution: User Optimized
Application_Note: CyclinD1 Protein is suitable for use in Western Blot. Expect a band approximately ~ 61 kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.

Comment: Biochemical Assay, Functional Assay

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.2 µg/µL

Buffer: CyclinD1 Protein is stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.

Storage: -80 °C

Storage Comment: 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.

Expiry Date: 12 months

Publications

Product cited in: Del Toro, Fernandez-Ruiz, Mignacca, Kalegari, Rowell, Igelmann, Saint-Germain, Benfdil, Lopes-

Paciencia, Brakier-Gingras, Bourdeau, Ferbeyre, Lessard: "Ribosomal protein RPL22/eL22 regulates the cell cycle by acting as an inhibitor of the CDK4-cyclin D complex." in: **Cell cycle (Georgetown, Tex.)**, Vol. 18, Issue 6-7, pp. 759-770, (2020) ([PubMed](#)).