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Datasheet for ABIN7505145

Cyclin D1 Protein (CCND1) (AA 16-271) (His tag)

Overview

Quantity:	100 µg
Target:	Cyclin D1 (CCND1)
Protein Characteristics:	AA 16-271
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Cyclin D1 protein is labelled with His tag.

Product Details

Sequence:	Ala 16-Ala 271
Characteristics:	A DNA sequence encoding the Human Cyclin D1 protein (P24385) (Ala 16-Ala 271) was expressed with a N-His tag.
Purity:	>95 % as determined by reducing SDS-PAGE.

Target Details

Target:	Cyclin D1 (CCND1)
Alternative Name:	Cyclin D1 (CCND1 Products)
Background:	Background: Regulatory component of the cyclin D1-CDK4 (DC) complex that phosphorylates and inhibits members of the retinoblastoma (RB) protein family including RB1 and regulates the cell-cycle during G1/S transition. Phosphorylation of RB1 allows dissociation of the transcription factor E2F from the RB/E2F complex and the subsequent transcription of E2F

Target Details

target genes which are responsible for the progression through the G1 phase.

Hypophosphorylates RB1 in early G1 phase. Cyclin D-CDK4 complexes are major integrators of various mitogenic and antimitogenic signals. Also a substrate for SMAD3, phosphorylating SMAD3 in a cell-cycle-dependent manner and repressing its transcriptional activity. Component of the ternary complex, cyclin D1/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex. Exhibits transcriptional corepressor activity with INSM1 on the NEUROD1 and INS promoters in a cell cycle-independent manner.

Synonym: B cell leukemia 1,BCL 1,ccnd1,Cd1,Cyl 1,G1/S specific cyclin D1,PRAD1

Molecular Weight:	28.05 kDa
UniProt:	P24385
Pathways:	PI3K-Akt Signaling , Cell Division Cycle , Mitotic G1-G1/S Phases , ER-Nucleus Signaling

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Buffer:	Lyophilized from sterile PBS, pH 7.4.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	12 months