Datasheet for ABIN7505173

Cyclin D1 Protein (CCND1) (AA 1-295) (His tag)

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Overview

Quantity:	100 µg
Target:	Cyclin D1 (CCND1)
Protein Characteristics:	AA 1-295
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:	Met 1-Ile 295
Characteristics:	A DNA sequence encoding the Human cyclin D1/Ccnd1 protein (P25322) (Met 1-Ile 295) was expressed with N-His.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	Cyclin D1 (CCND1)
Alternative Name:	cyclin D1 (CCND1 Products)
Background:	Abbreviation: cyclin D1,Ccnd1 Target Synonym: B cell leukemia 1,BCL 1,ccnd1,Cd1,Cyl 1,G1/S specific cyclin D1,PRAD1 Background: Activity of the cyclin-dependent kinases CDK4 and CDK6 is regulated by T-loop phosphorylation, by the abundance of their cyclin partners (the D-type cyclins), and by

Target Details

	association with CDK inhibitors of the Cip/Kip or INK family of proteins. The inactive ternary complex of cyclin D/CDK4 and p27 Kip1 requires extracellular mitogenic stimuli for the release and degradation of p27 concomitant with a rise in cyclin D levels to affect progression through the restriction point and Rb-dependent entry into S-phase. The active complex of cyclin D/CDK4 targets the retinoblastoma protein for phosphorylation, allowing the release of E2F transcription factors that activate G1/S-phase gene expression. Levels of cyclin D protein drop upon withdrawal of growth factors through downregulation of protein expression and phosphorylation-dependent degradation.
Molecular Weight:	Calculated MW: 32.34 kDa Observed MW: 39 kDa
UniProt:	P25322
Pathways:	PI3K-Akt Signaling, Cell Division Cycle, Mitotic G1-G1/S Phases, ER-Nucleus Signaling

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.
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