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Datasheet for ABIN7318363

Cyclin D2 Protein (CCND2) (His tag)

Overview

Quantity:	50 µg
Target:	Cyclin D2 (CCND2)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Cyclin D2 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Cyclin-D2/CCND2 Protein (His Tag)
Sequence:	Met 1-Leu289
Characteristics:	Recombinant Human Cyclin-D2 is produced by our E.coli expression system and the target gene encoding Met1-Leu289 is expressed with a 6His tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	Cyclin D2 (CCND2)
Alternative Name:	Cyclin-D2/CCND2 (CCND2 Products)
Background:	Background: CCND2,also known as G1/S-specific cyclin-D2,is a member of the highly conserved cyclin family. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. Cyclins function as

Target Details

regulators of CDK kinases. 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. CCND2 is involved in a number of fundamental biological processes such as phosphorylating and inhibiting members of the retinoblastoma (RB) protein family including RB1 and regulating the cell-cycle during G1/S transition. It is also substrate for SMAD3, phosphorylating SMAD3 in a cell-cycle-dependent manner and repressing its transcriptional activity. Phosphorylation of RB1 allows dissociation of the transcription factor E2F from the RB/E2F complex and the subsequent transcription of E2F target genes which are responsible for the progression through the G1 phase. Cyclin D-CDK4 complexes are major integrators of various mitogenic and antimitogenic signals. Component of the ternary complex, cyclin D2/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex.

Synonym: G1/S-specific cyclin-D2,CCND2,

Molecular Weight:	35.4 kDa
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UniProt:	P30279
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Pathways:	Cell Division Cycle , Mitotic G1-G1/S Phases
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Application Details

Restrictions:	For Research Use only
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Handling

Format:	Frozen, Liquid
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Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM Tris, 150 mM NaCl, 5 mM DTT, pH 7.5.
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Storage:	-20 °C
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Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
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