

Product datasheet

Recombinant Human Cyclin D2 protein (denatured) ab116405

[1 Image](#)

Description

Product name	Recombinant Human Cyclin D2 protein (denatured)
Purity	> 85 % SDS-PAGE.
Expression system	Escherichia coli
Accession	<u>P30279</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MGSSHHHHHH SSGLVPRGSH MGSHEMELLCH EVDPVRRRAVR DRNLLRDDR LQNLLTIEER YLPQCSYFKC VQKDIQPYMR RMVATWMLEV CEEQKCEEEV FPLAMNYLDR FLAGVPTPKS HLQLLGAVCM FLASKLKETS PLTAEKLCIY TDNSIKPQEL LEWELVVLGK LKWNLAAVTP HDFIEHILRK LPQQRKLSL IRKHAQTFIA LCATDFKFAM YPPSMIATGS VGAAICGLQQ DEEVSSLTCD ALTELLAKIT NTDVDCLKAC QEQIEAVLLN SLQQYRQDQR DGSKSEDELD QASTPTDVRD IDL
Predicted molecular weight	36 kDa including tags
Amino acids	1 to 289
Tags	His tag N-Terminus
Description	Recombinant Human Cyclin D2 protein

Specifications

Our **Abpromise guarantee** covers the use of **ab116405** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications SDS-PAGE

Form Liquid

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 8.00

Constituents: 6% Urea, 0.03% DTT, 83% Tris HCl, 10% Glycerol (glycerin, glycerine)

General Info

Function

Regulatory component of the cyclin D2-CDK4 (DC) complex that phosphorylates and inhibits members of the retinoblastoma (RB) protein family including RB1 and regulates the cell-cycle during G(1)/S transition. 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 G(1) phase. Hypophosphorylates RB1 in early G(1) phase. Cyclin D-CDK4 complexes are major integrators of various mitogenic and antimitogenic signals. Also substrate for SMAD3, phosphorylating SMAD3 in a cell-cycle-dependent manner and repressing its transcriptional activity. Component of the ternary complex, cyclin D2/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex.

Sequence similarities

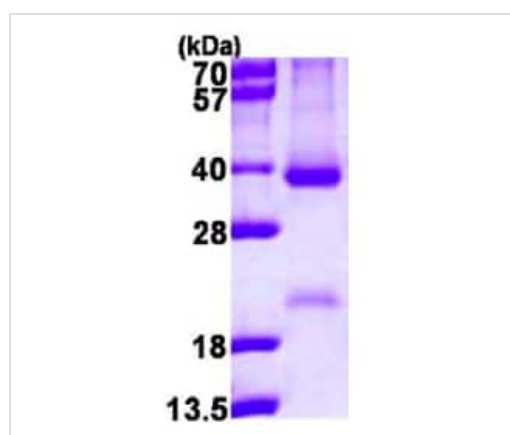
Belongs to the cyclin family. Cyclin D subfamily.

Contains 1 cyclin N-terminal domain.

Cellular localization

Nucleus. Cytoplasm. Membrane. Cyclin D-CDK4 complexes accumulate at the nuclear membrane and are then translocated into the nucleus through interaction with KIP/CIP family members.

Images



3ug Cyclin D2 protein. 15% SDS-PAGE

SDS-PAGE - Recombinant Human Cyclin D2 protein
(denatured) (ab116405)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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