

Product datasheet

Recombinant Human Cyclin D3 protein ab158041

1 Image

Overview

| | |
|-----------------------|-------------------------------------|
| Product name | Recombinant Human Cyclin D3 protein |
| Protein length | Full length protein |

Description

| | |
|---------------|-------------|
| Nature | Recombinant |
| Source | Wheat germ |

Amino Acid Sequence

| | |
|--------------------|---|
| Species | Human |
| Sequence | MELLCCEGTRHAPRAGPDPRL LGDQRVLQSLLRLEERYVPRASYFQCVQR EIKPHMRKMLAYWMLEVCEEQRCEEEVFPLAMNYLDRYLSCVPTRKAQLQ LLGAVCM LLASKLRETTPLTIEKLCYTDHAVSPRQLRDWEVLVLGKWKW DLAAVIAHDFLAFILHRLSLPRDRQALVKKHAQTFLALCATDYTFAMYPP SMIATGSIGAAVQQLGACSMGDELTELLAGITGTEVDCLRACQEIEAA LRESLREASQTSSSPAPKAPRGSSSQGPSQTSTPTDVTAIHL |
| Amino acids | 1 to 292 |
| Tags | proprietary tag N-Terminus |

Specifications

Our [Abpromise guarantee](#) covers the use of **ab158041** in the following tested applications.

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

| | |
|-------------------------|--|
| Applications | ELISA Western blot |
| Form | Liquid |
| Additional notes | Protein concentration is above or equal to 0.05 mg/ml. |

Preparation and Storage

| | |
|------------------------------|---|
| Stability and Storage | Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 |
|------------------------------|---|

Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

Function

Regulatory component of the cyclin D3-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 D3/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex.

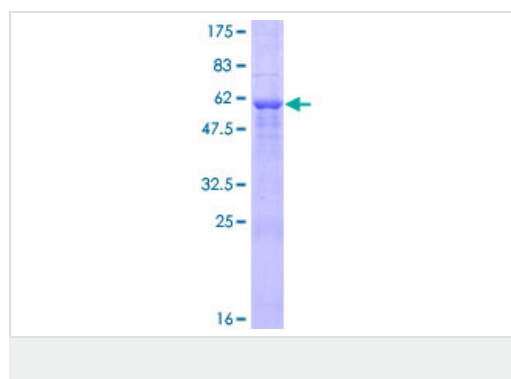
Sequence similarities

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 to the nucleus through interaction with KIP/CIP family members.

Images



ab158041 on a 12.5% SDS-PAGE stained with Coomassie Blue.

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