abcam

Product datasheet

Anti-Cyclin D3/CCND3 (phospho T283 + T283) antibody ab195999

1 Image

Overview

Product name	Anti-Cyclin D3/CCND3 (phospho T283 + T283) antibody
Description	Rabbit Polyclonal to Cyclin D3/CCND3 (phospho T283 + T283)
Host species	Rabbit
Specificity	ab195999 detects endogenous levels of Cyclin D3 only when phosphorylated at Threonine 283.
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide corresponding to Human Cyclin D3 (phospho T283). (Derived from around the phosphorylation site of Threonine 283). Database link: P30281
Positive control	UV treated K562 whole cell lysate.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.4 Preservative: 0.02% Sodium azide Constituents: 50% Glycerol, 49% PBS, 0.87% Sodium chloride
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee	Our Abpromise guarantee covers the use of ab195999 in the following tested applications.

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

Application	Abreviews	Notes
WB		1/500 - 1/2000. Predicted molecular weight: 33 kDa.

Target

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 mitogenenic 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.

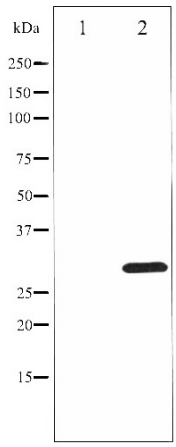
Sequence similarities

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



Western blot - Anti-Cyclin D3 (phospho T283) antibody (ab195999)

All lanes : Anti-Cyclin D3/CCND3 (phospho T283 + T283) antibody (ab195999) at 1/500 dilution

Lane 1 : UV treated K562 whole cell lysate with antigen specific peptide
Lane 2 : UV treated K562 whole cell lysate

Lysates/proteins at 12.5 µg per lane.

Predicted band size: 33 kDa

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