abcam

Product datasheet

Recombinant human CDK4 + CCND3 protein ab85646

1 References　画像数 5

製品の詳細

製品名	Recombinant human CDK4 + CCND3 protein
生理活性	The Specific activity of ab85646 was determined to be 16 nmol/min/mg.
精製度	> 80 % Densitometry. Affinity purified.
発現系	Baculovirus infected Sf9 cells
タンパク質長	Full length protein
Animal free	No
由来	Recombinant
生物種	Human

特性

Our **Abpromise guarantee** covers the use of **ab85646** in the following tested applications.

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

アプリケーション	Western blot Functional Studies SDS-PAGE
製品の状態	Liquid
備考	**ab56270** (Human Rb protein fragment) can be utilized as a substrate for assessing Kinase activity

前処理および保存

保存方法および安定性	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.0038% EGTA, 0.00174% PMSF, 0.00385% DTT, 0.79% Tris HCl, 0.00292% EDTA, 25% Glycerol (glycerin, glycerine), 0.87% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.

関連情報

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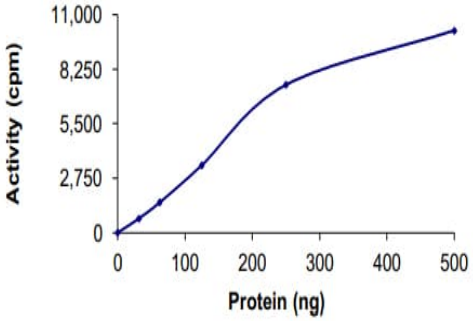
関連性

CDK4 is a member of the Ser/Thr protein kinase family. It is highly similar to the gene products of S. cerevisiae cdc28, and S. pombe cdc2. CDK4 is a catalytic subunit of the protein kinase complex that is important for cell cycle G1 phase progression. The activity of this kinase is restricted to the G1/S phase, which is controlled by the regulatory subunits D type cyclins and CDK inhibitor p16(INK4a). CDK4 was shown to be responsible for the phosphorylation of retinoblastoma gene product (Rb). Mutations in this gene as well as its related proteins including D type cyclins, p16(INK4a) and Rb were all found to be associated with tumorigenesis of a variety of cancers. CCND3 (Cyclin D3) belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. CCND3 forms a complex with and functions as a regulatory subunit of CDK4 or CDK6, whose activtiy is required for cell cycle G1/S transition. It has been shown to interact with and be involved in the phosphorylation of tumor suppressor protein Rb.

細胞内局在

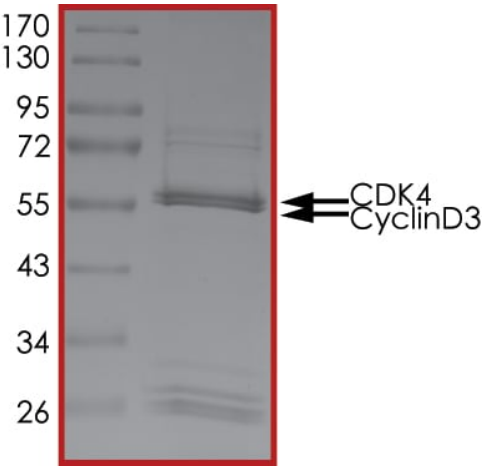
CCND3: Cytoplasm. Nucleus.

画像



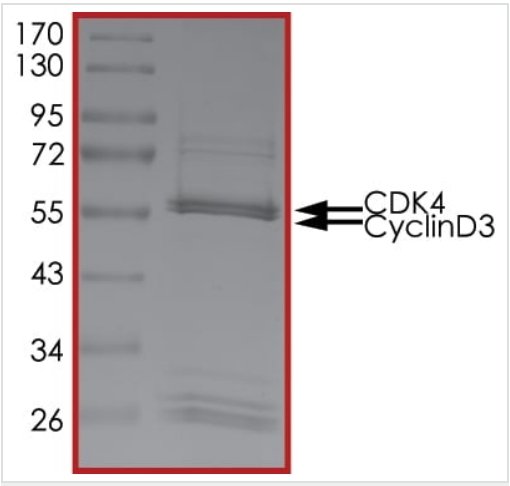
Functional Studies - Recombinant human CDK4 + CCND3 protein (ab85646)

The specific activity of CDK4 + CCND3 (ab85646) was determined to be 13 nmol/min/mg as per activity assay protocol



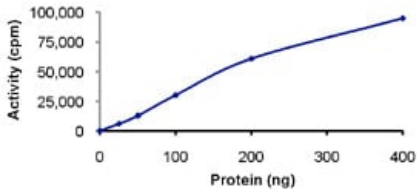
SDS-PAGE - Recombinant human CDK4 + CCND3 protein (ab85646)

SDS PAGE analysis of ab85646



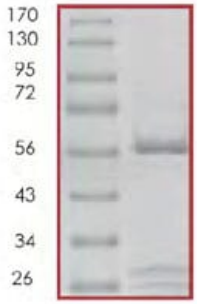
SDS PAGE analysis of ab85646

SDS-PAGE - Recombinant human CDK4 + CCND3 protein (ab85646)



The Specific activity of ab85646 was determined to be 16 nmol/min/mg.

Functional Studies - Recombinant human CDK4 + CCND3 protein (ab85646)



SDS-PAGE showing ab85646 at approximately 58kDa (both proteins).

SDS-PAGE - Recombinant human CDK4 + CCND3 protein (ab85646)

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