

Product datasheet

Recombinant human CDK6 + CCND3 protein ab84557

[1 References](#) [5 Images](#)

Description

Product name	Recombinant human CDK6 + CCND3 protein
Biological activity	Specific activity of ab84557 was determined to be 36 nmol/min/mg.
Purity	> 75 % Densitometry. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab84557** in the following tested applications.

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

Applications	Western blot Functional Studies SDS-PAGE
Form	Liquid
Additional notes	ab56270 (Human Rb protein fragment) can be utilized as a substrate for assessing Kinase activity

Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.00 Preservative: 1.02% Imidazole Constituents: 0.00174% PMSF, 0.82% Sodium phosphate, 0.00308% DTT, 25% Glycerol (glycerin, glycerine), 1.74% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.
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General Info

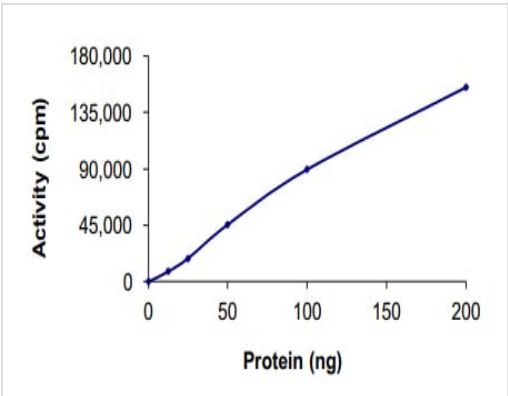
Relevance

CDK family members are highly similar to the gene products of *Saccharomyces cerevisiae* cdc28, and *Schizosaccharomyces pombe* cdc2, and are known to be important regulators of cell cycle progression. This kinase is a catalytic subunit of the protein kinase complex that is important for cell cycle G1 phase progression and G1/S transition. The activity of Cdk6 first appears in mid-G1 phase, and is controlled by regulatory subunits including D-type cyclins and members of INK4 family of CDK inhibitors. This kinase, as well as CDK4, has been shown to phosphorylate, and thus regulate the activity of, tumor suppressor protein Rb. Cyclin D3 is a G1 cyclin closely related to cyclin D1 and D2. Cyclins D1, D2, and D3 are members of a growing superfamily of cyclins, proteins that govern transitions through distinct phases of the cell cycle by regulating the activity of cyclin-dependent kinases (cdks). All three known members of the D-type subfamily form active kinase complexes in vivo with a distinct subset of cdks, particularly with cdk4 and cdk6.

Cellular localization

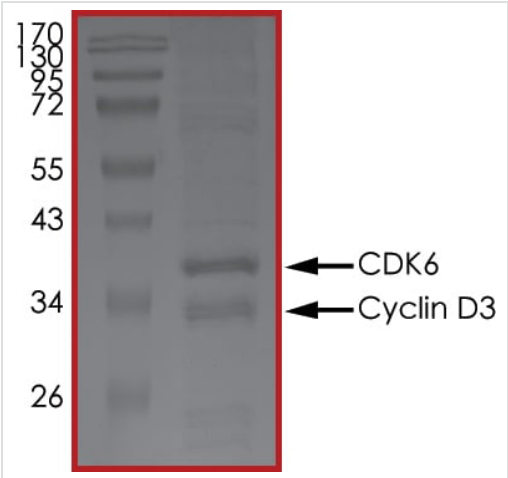
CCND3: Cytoplasm. Nucleus

Images



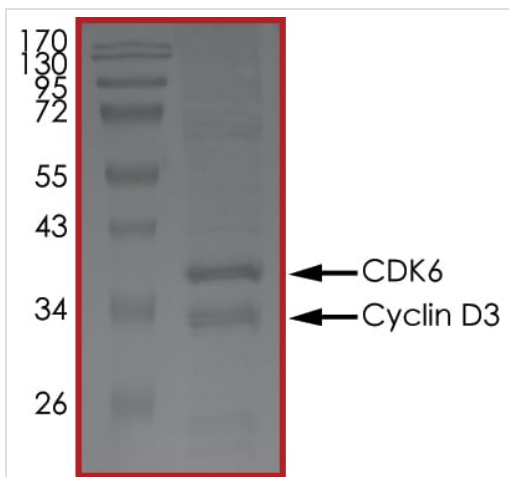
The specific activity of CDK6 + CCND3 (ab84557) was determined to be 40 nmol/min/mg as per activity assay protocol

Functional Studies - Recombinant human CDK6 + CCND3 protein (ab84557)



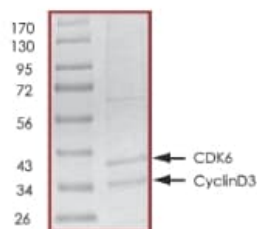
SDS PAGE analysis of ab84557

SDS-PAGE - Recombinant human CDK6 + CCND3 protein (ab84557)



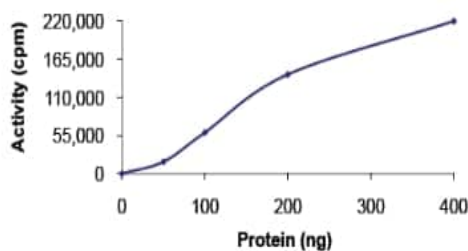
SDS PAGE analysis of ab84557

SDS-PAGE - Recombinant human CDK6 + CCND3 protein (ab84557)



SDS-PAGE of ab84557. CDK6 approximate MW 40kDa and CCND3 approximate MW 35kDa.

SDS-PAGE - Recombinant human CDK6 + CCND3 protein (ab84557)



Kinase Assay: Specific activity of CDK6/CCND3 was determined to be 36 nmol/min/mg using protein substrate Rb.

Functional Studies - Recombinant human CDK6 + CCND3 protein (ab84557)

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

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