abcam

Product datasheet

Recombinant human CDK6 + CCND1 protein ab84559

5 Images

Description

Product name	Recombinant human CDK6 + CCND1 protein
Biological activity	Specific activity of CDK6 + CCND1 was determined to be 9.3 nmol/min/mg as per activity assay protocol.
Purity	> 85 % Densitometry. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human

Specifications

Our **Abpromise guarantee** covers the use of **ab84559** 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

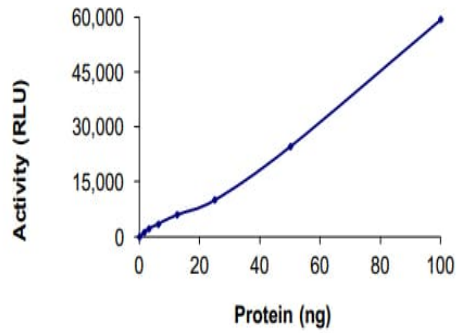
Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 7.00 Preservative: 1.02% Imidazole Constituents: 0.00174% PMSF, 0.82% Sodium phosphate, 0.00308% DTT, 25% Glycerol (glycerin, glycerine), 1.74% Sodium chloride This product is an active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

General Info

Relevance

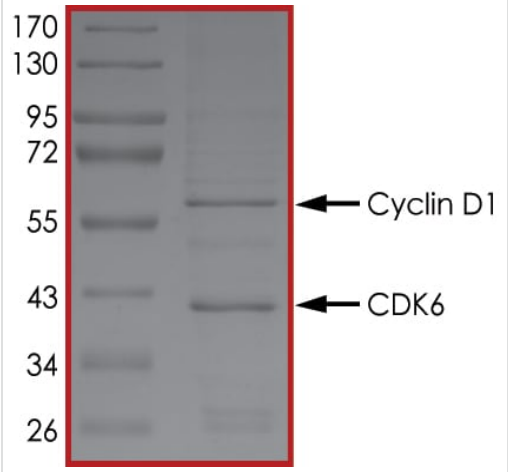
CDK6 is a member of the cyclin-dependent family of protein kinases that are important regulators of cell cycle progression. CDK6 activity is regulated by the D-type cyclins and members of the INK4 family of CDK inhibitors (1). The CDK6 kinase activity is detected in mid-G1 phase of the cell cycle and is responsible for the phosphorylation and regulation of the activity of tumor suppressor protein Rb. Although CDK6 and CDK4 can both phosphorylate multiple residues in the Rb protein, they do so with different residue selectivity in vitro; CDK6 phosphorylates Thr821 while CDK4 phosphorylates Thr826 on Rb protein (2). CCND1 is essential for the control of the cell cycle at the G1/S (start) transition

Images



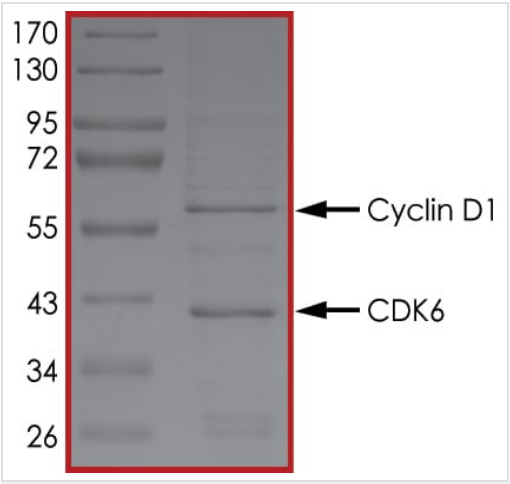
Functional Studies - Recombinant human CDK6 + CCND1 protein (ab84559)

The specific activity of CDK6 + CCND1 (ab84559) was determined to be 1.7 nmol/min/mg as per activity assay protocol and was equivalent to 8 nmol/min/mg as per radiometric assay



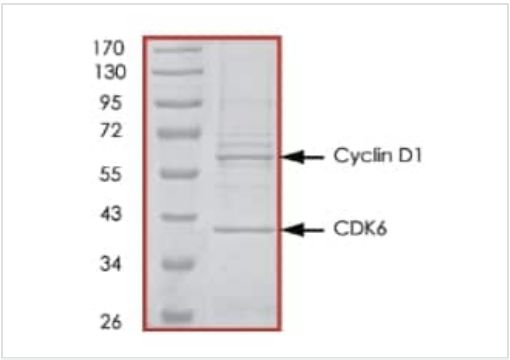
SDS-PAGE - Recombinant human CDK6 + CCND1 protein (ab84559)

SDS PAGE analysis of ab84559



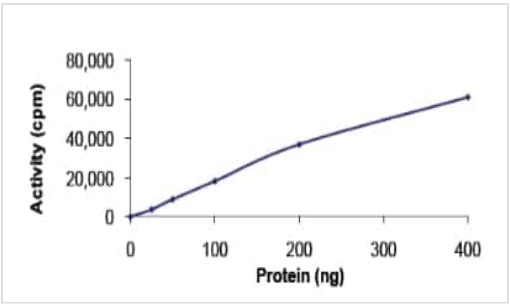
SDS-PAGE - Recombinant human CDK6 + CCND1 protein (ab84559)

SDS PAGE analysis of ab84559



SDS-PAGE - Recombinant human CDK6 + CCND1 protein (ab84559)

Purity of CDK6 + CCND1 was determined to be >85% by densitometry. CDK6 approx. MW 40kDa and CCND1 approx. MW 61kDa.



Functional Studies - Recombinant human CDK6 + CCND1 protein (ab84559)

Specific activity of CDK6 + CCND1 was determined to be 9.3 nmol/min/mg as per activity assay protocol.

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors