abcam

Product datasheet

Recombinant human CDK3 + CCNE1 protein ab85643

5 Images

Description

Product name	Recombinant human CDK3 + CCNE1 protein
Biological activity	The Specific activity of ab85643 was determined to be 20 nmol/min/mg.
Purity	> 90 % SDS-PAGE. Purity was determined to be >90% by densitometry.
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 **ab85643** 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	ab89813 (Histone H1 protein) 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: 7.50 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.

General Info

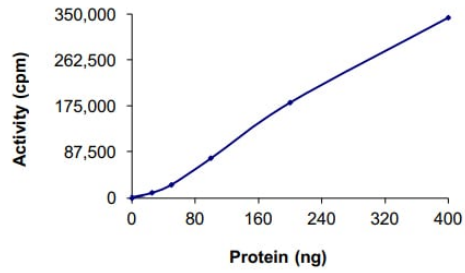
Relevance

CDK3 is a member of the cyclin-dependent protein kinase family. The protein promotes entry into S phase, in part by activating members of the E2F family of transcription factors. The protein also associates with cyclin C and phosphorylates the retinoblastoma 1 protein to promote exit from G0. CCNE1 (Cyclin E) is a regulatory subunit of Cdk2 and controls G1 / S transition during the mammalian cell cycle. Multiple isoforms of Cyclin E are only expressed in tumors but not in normal tissue, suggesting a post transcriptional regulation of Cyclin E. In vitro analyses indicated that these truncated variant isoforms of Cyclin E are able to phosphorylate histone H1. Alterations in the Cyclin E protein have been implicated as indicators of worse prognosis in various cancers.

Cellular localization

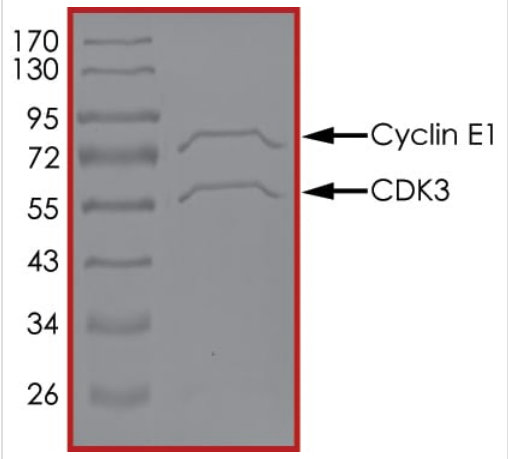
CCNE1: Nuclear

Images



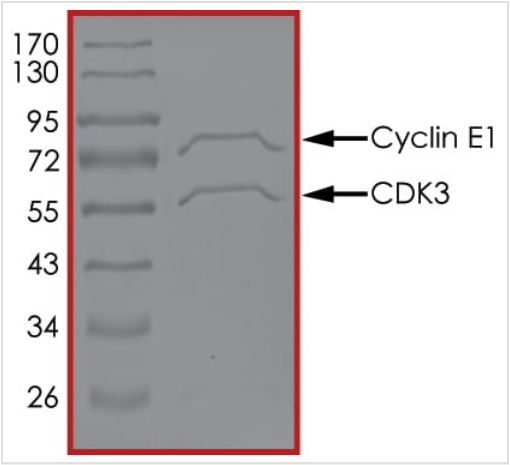
Functional Studies - Recombinant human CDK3 + CCNE1 protein (ab85643)

The specific activity of CDK3 + CCNE1 (ab85643) was determined to be 23 nmol/min/mg as per activity assay protocol



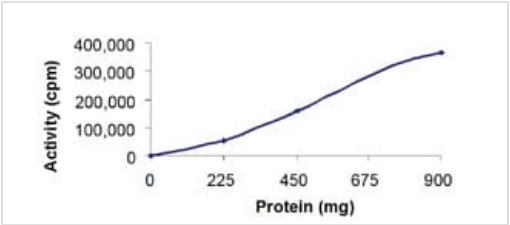
SDS-PAGE - Recombinant human CDK3 + CCNE1 protein (ab85643)

SDS PAGE analysis of ab85643



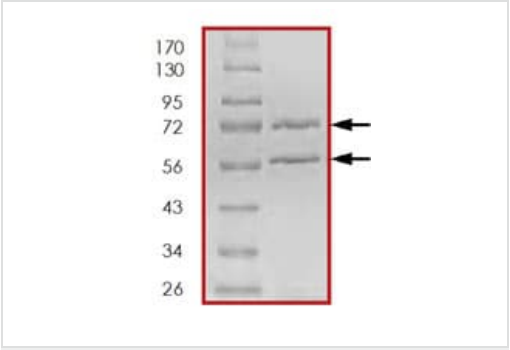
SDS-PAGE - Recombinant human CDK3 + CCNE1 protein (ab85643)

SDS PAGE analysis of ab85643



Functional Studies - Recombinant human CDK3 + CCNE1 protein (ab85643)

The Specific activity of ab85643 was determined to be 20 nmol/min/mg.



SDS-PAGE - Recombinant human CDK3 + CCNE1 protein (ab85643)

SDS-PAGE showing ab85643 at approximately 60kDa (CDK3) and 73kDa (CCNE1).

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