abcam

Product datasheet

Recombinant human CDK7 + Cyclin H + MNAT1 protein ab64303

2 References 画像数 5

製品の詳細

製品名	Recombinant human CDK7 + Cyclin H + MNAT1 protein
生理活性	Specific activity: 19 nmol/min/mg.
精製度	> 90 % SDS-PAGE. 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 **ab64303** 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	SDS-PAGE Functional Studies
製品の状態	Liquid
備考	**ab64311** (Myelin Basic Protein protein) 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: 7.00 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.

関連情報

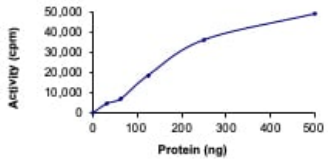
関連性

CDK7: Cyclin-dependent kinases (CDKs) are activated by the binding to a cyclin and mediate the progression through the cell cycle. Each different complex controls a specific transition between two subsequent phases in the cell cycle. CDK7 is the catalytic subunit of the CDK-activating kinase (CAK) complex, a serine-threonine kinase. CAK activates the cyclin-associated kinases CDC2/CDK1, CDK2, CDK4 and CDK6 by threonine phosphorylation. CAK complexed to the core-TFIIH basal transcription factor activates RNA polymerase II by serine phosphorylation of the repetitive C-terminus domain (CTD) of its large subunit (POLR2A), allowing its escape from the promoter and elongation of the transcripts. Involved in cell cycle control and in RNA transcription by RNA polymerase II. Its expression and activity are constant throughout the cell cycle. Cyclin H: Regulates CDK7, the catalytic subunit of the CDK-activating kinase (CAK) enzymatic complex. CAK activates the cyclin-associated kinases CDC2/CDK1, CDK2, CDK4 and CDK6 by threonine phosphorylation. CAK complexed to the core-TFIIH basal transcription factor activates RNA polymerase II by serine phosphorylation of the repetitive C-terminus domain (CTD) of its large subunit (POLR2A), allowing its escape from the promoter and elongation of the transcripts. Involved in cell cycle control and in RNA transcription by RNA polymerase II. Its expression and activity are constant throughout the cell cycle. MNAT1: Stabilizes the cyclin H-CDK7 complex to form a functional CDK-activating kinase (CAK) enzymatic complex. CAK activates the cyclin-associated kinases CDC2/CDK1, CDK2, CDK4 and CDK6 by threonine phosphorylation. CAK complexed to the core-TFIIH basal transcription factor activates RNA polymerase II by serine phosphorylation of the repetitive C-terminus domain (CTD) of its large subunit (POLR2A), allowing its escape from the promoter and elongation of the transcripts. Involved in cell cycle control and in RNA transcription by RNA polymerase II.

細胞内局在

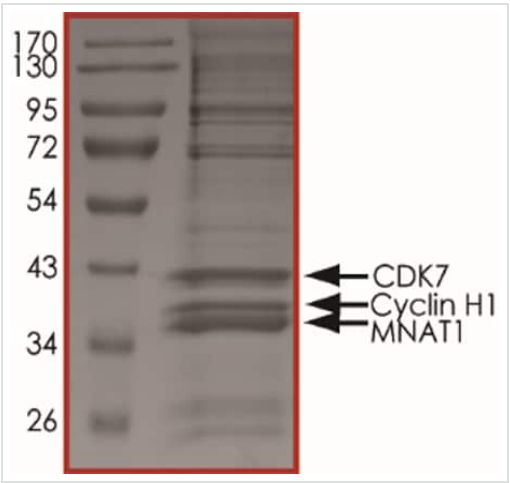
Nuclear

画像



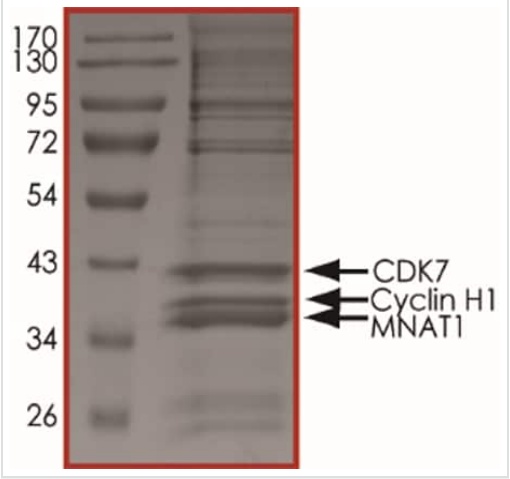
Functional Studies - Recombinant human CDK7 + Cyclin H + MNAT1 protein (ab64303)

The specific activity of CDK7 + Cyclin H + MNAT1 (ab64303) was determined to be 20 nmol/min/mg as per activity assay protocol



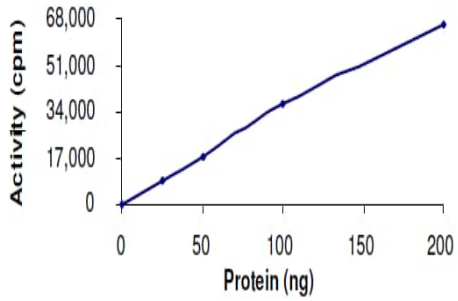
SDS-PAGE - Recombinant human CDK7 + Cyclin H + MNAT1 protein (ab64303)

SDS PAGE analysis of ab64303



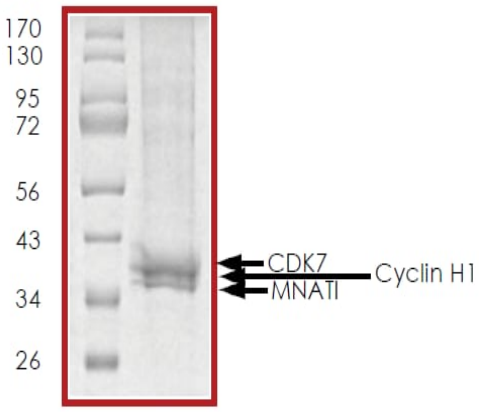
SDS-PAGE - Recombinant human CDK7 + Cyclin H + MNAT1 protein (ab64303)

SDS PAGE analysis of ab64303



Functional Studies - Recombinant human CDK7 + Cyclin H + MNAT1 protein (ab64303)

The specific activity of CDK7 + Cyclin H + MNAT1 (ab64303) was determined to be 19nmol/min/mg as per activity assay protocol.



SDS-PAGE - Recombinant human CDK7 + Cyclin H + MNAT1 protein (ab64303)

SDS-PAGE analysis of ab64303. The purity of CDK7 + Cyclin H + MNAT1 (ab64303) was determined to be >90% by densitometry, CDK7 approx. MW 40kDa, CyclinH1 approx. MW 39kDa and MNAT1 approx. MW 37kDa

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