

Product datasheet

Recombinant Human CDK13 + CyclinK protein
ab204098

1 Image

Description

| | | |
|------------------------------|--|--|
| Product name | Recombinant Human CDK13 + CyclinK protein | |
| Purity | > 70 % Densitometry. | |
| Expression system | Baculovirus infected Sf9 cells | |
| Accession | Q14004 O75909 | |
| Protein length | Protein fragment | |
| Animal free | No | |
| Nature | Recombinant | |
| Amino Acid Sequence 1 | | |
| Species | Human | |
| Sequence | KKIKIEHAPSPSSGGTLKNDKAKTKPPLQVTKVENNLVDK ATTKAVVG KESKSAATKEESVSLKEKTKPLTPSIGAKEKEQHVALVTS TLPLPLPPM LPEDKEADSLRGNISVKAVKKEVEKKLRCLLADLPLPEL PGGDLSKSP EEKKTATQLHSKRRPKICGPYGETKEKDIDWGRKCVDK FDIIGIIGET YGQVYKARDKDTGEMVALKKVRLDNEKEGFPITAIREIKILR QLTHQSII NMKEIMTDKEDALDFKKDKGAFYLVFEYMDHDLMGLES GLVHFNENHIK SFMRQLMEGLDYCHKKNFLHRDIKCSNILLNNRGQIKLADF GLARLYSSE ESRPYTNKVITLWYRPPPELLLGEERYTPAIDVWSCGCILGE LFTKKPIFQ ANQELAQLELISRICGSPCPAVWPDVIKLPYFNTMKPKKQY RRKLREEFV FIPAAALDLFDYMLALDPSKRCTAEQALQCEFLRDVEPSK MPPPDLPPLWQ DCHELWSKKRRRQKQMGMTDDVSTIKAPRKDLSLGLDD | |

SRTNTPQGVLPS
 SQLKSQGSSNVAPVKTGPGQHNLHSELAILLNLLQSKTSV
 NMADFVQVLN
 IKVNSE TQQQLNKINLPAGILATGEKQTDPTSTPQQESSKPL
 GGIQPSSQT
 IQPKVETDAAQAAVQSAFAVLLTQLIKAQQSKQKDVLLLE
 RENGSGHEAS
 LQLRPPPEPSTPVSGQDDLIQHQDMRILELTPEPDRPRILP
 PDQRPEPP
 EPPPVTEDLDYRTENQHVPPTSSSLTDPHAGVKAALLQL
 LAQHQPQDDP
 KREGGIDYQAGDTYVSTSDYKDNFGSSSFSSAPYVSN
 LGSSSAPPLER
 RSFIGNSDIQSLDNYSTASSHSGGPPQPSAFSESFSSVA
 GYGDYLNAG
 PMLFSGDKDHRFEYSHGPIAVLANSSDPSTGPESTHPLP
 AKMHNYNYGGN
 LQENPSGPSLMHGQWTWSPAQGPQGYRQGHISTSTGR
 GRGRGLPY

Predicted molecular weight 160 kDa including tags

Amino acids 516 to 1512

Tags GST tag N-Terminus

Amino Acid Sequence 2

Species Human

Sequence

MKENKENS SPSVTSANLDHTKPCWYWDKDLAHTPSQL
 EGLDPATEARYR
 REGARFIFDVGTRLGLHYDTLATGIYFHRFYMFHFSKQFPR
 YVTGACCL
 FLAGKVEETPKKCKDIKTARSLNDVQFGQFGDDPKKEEV
 MVLERILLQT
 IKFDLQVEHPYQFLLKYAKQLKGDKNKIQLVQMAWTFVN
 DSLCTTSLQ
 WEPEIIAVAVMYLAGRLCKFEIQEWTSKPMYRRWWEQFV
 QDVPVDVLEDI
 CHQILDLYSQGKQMPHHTPHQLQQPPSLQPTPQVPQVQ
 QSQPSQSSEPS
 QPQQKDPQQPAQQQPAQQPKKPSQPSSPRQVKRAV
 VVSPKEENKAAEP
 PPPKIPKIETTHPPLPPAHPPPDRKPPLAAALGEAEPGP
 VDATDLPKVQ
 IPPPAHPAPVHQPPPLPHRPPPPPPSSYMTGMSTTSSYM
 SGEGYQSLQSM
 MKTEGPSYGALPPAYGPPAHLPHYHPVYPPNPPPPVPP
 PPASFPPPAIP
 PPTPGYPPPPPTYNPNFPPPPPRLPPTHAVPPHPPGLG
 LPPASYPPPAV
 PPGGQPPVPPPIPPPGMPPVGGGLGRAAWMR

Predicted molecular weight 67 kDa including tags

Amino acids 1 to 580

Tags

GST tag N-Terminus

Specifications

Our [Abpromise guarantee](#) covers the use of **ab204098** 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

SDS-PAGE

Form Liquid

Preparation and Storage

Stability and Storage Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle.

pH: 7.50

Constituents: 0.79% Tris HCl, 25% Glycerol (glycerin, glycerine), 0.31% Glutathione, 0.004% DTT, 0.003% EDTA, 0.002% PMSF, 0.87% Sodium chloride

General Info

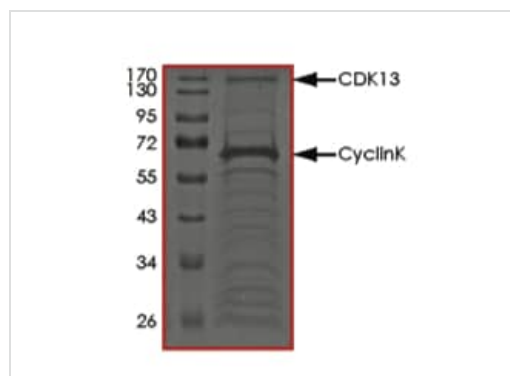
Relevance

Cyclin-dependent kinase which displays CTD kinase activity and is required for RNA splicing. Has CTD kinase activity by hyperphosphorylating the C-terminal heptapeptide repeat domain (CTD) of the largest RNA polymerase II subunit RPB1, thereby acting as a key regulator of transcription elongation. Required for RNA splicing, probably by phosphorylating SRSF1/SF2. Required during hematopoiesis. In case of infection by HIV-1 virus, interacts with HIV-1 Tat protein acetylated at 'Lys-50' and 'Lys-51', thereby increasing HIV-1 mRNA splicing and promoting the production of the doubly spliced HIV-1 protein. Cyclin K regulatory subunit of cyclin-dependent kinases that mediates activation of target kinases. Plays a role in transcriptional regulation via its role in regulating the phosphorylation of the C-terminal domain (CTD) of the large subunit of RNA polymerase II

Cellular localization

Nucleus speckle.

Images



SDS-PAGE showing ab204098.

SDS-PAGE - Recombinant Human CDK13 +
CyclinK protein (ab204098)

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

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