

Datasheet for ABIN5711209

CSNK2A1/CK II alpha Protein (AA 8-350, partial) (His-SUMO Tag)[Go to Product page](#)**1** Image

Overview

Quantity:	100 µg
Target:	CSNK2A1/CK II alpha (CSNK2A1)
Protein Characteristics:	AA 8-350, partial
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CSNK2A1/CK II alpha protein is labelled with His-SUMO Tag.
Application:	SDS-PAGE (SDS)

Product Details

Sequence:	SRARVYAEVN SLRSREYWDY EAHVPSWGNQ DDYQLVRKLG RGKYSEVFEA INITNNERVV VKILKPVKKK KIKREVKILE NLRGGTNIHK LIDTVKDPVS KTPALVFEYI NNTDFKQLYQ ILTDFDIRFY MYELLKALDY CHSKGIMHRD VKPHNVIMIDH QQKKLRLIDW GLAEFYHPAQ EYNVRVASRY FKGPELLVDY QMYDYSLDMW SLGCMLASMI FRREPFFHGQ DNYDQLVRIA KVLGTEELYG YLKKYHIDLD PHFNDILGQH SRKRWENFIH SENRHLVSPE ALDLLDKLLR YDHQQRILTAK EAMEHPYFYP VVKEQSQPCA DNAVLSGLT AAR
Purification:	SDS-PAGE
Purity:	> 90 %

Target Details

Target:	CSNK2A1/CK II alpha (CSNK2A1)
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Target Details

Alternative Name: CSK21 ([CSNK2A1 Products](#))

Background: Catalytic subunit of a constitutively active serine/threonine-protein kinase complex that phosphorylates a large number of substrates containing acidic residues C-terminal to the phosphorylated serine or threonine. Regulates numerous cellular processes, such as cell cycle progression, apoptosis and transcription, as well as viral infection. May act as a regulatory node which integrates and coordinates numerous signals leading to an appropriate cellular response. During mitosis, functions as a component of the p53/TP53-dependent spindle assembly checkpoint (SAC) that maintains cyclin-B-CDK1 activity and G2 arrest in response to spindle damage. Also required for p53/TP53-mediated apoptosis, phosphorylating 'Ser-392' of p53/TP53 following UV irradiation. Can also negatively regulate apoptosis. Phosphorylates the caspases CASP9 and CASP2 and the apoptotic regulator NOL3. Phosphorylation protects CASP9 from cleavage and activation by CASP8, and inhibits the dimerization of CASP2 and activation of CASP8. Regulates transcription by direct phosphorylation of RNA polymerases I, II, III and IV. Also phosphorylates and regulates numerous transcription factors including NF-kappa-B, STAT1, CREB1, IRF1, IRF2, ATF1, SRF, MAX, JUN, FOS, MYC and MYB. Phosphorylates Hsp90 and its co-chaperones FKBP4 and CDC37, which is essential for chaperone function. Regulates Wnt signaling by phosphorylating CTNNB1 and the transcription factor LEF1. Acts as an ectokinase that phosphorylates several extracellular proteins. During viral infection, phosphorylates various proteins involved in the viral life cycles of EBV, HSV, HBV, HCV, HIV, CMV and HPV. Phosphorylates PML at 'Ser-565' and primes it for ubiquitin-mediated degradation. Plays an important role in the circadian clock function by phosphorylating ARNTL/BMAL1 at 'Ser-90' which is pivotal for its interaction with CLOCK and which controls CLOCK nuclear entry.

Molecular Weight: 56.6 kDa

UniProt: [P68400](#)

Pathways: [SARS-CoV-2 Protein Interactome](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

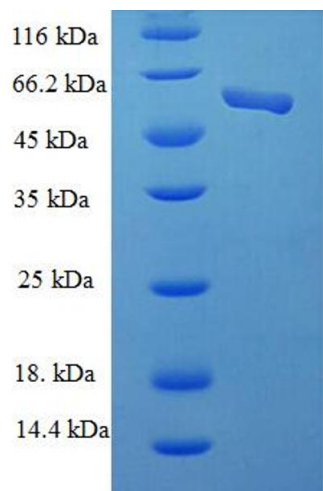
Handling

Format: Liquid

Handling

Concentration:	0.1-2 mg/mL
Buffer:	20 mM Tris-HCl based buffer, pH 8.0
Storage:	-80 °C,4 °C,-20 °C
Storage Comment:	Store at -20°C, for extended storage, conserve at -20°C or -80°C. Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Images



SDS-PAGE

Image 1.