

Datasheet for ABIN7562427

## CSNK2A2 Protein (AA 1-350) (His tag)



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### Overview

Quantity:	1 mg
Target:	CSNK2A2
Protein Characteristics:	AA 1-350
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CSNK2A2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Purpose:	Custom-made recombinat Csnk2a2 Protein expressed in mammalian cells.
Sequence:	<p>MPGPAAGSRA RVYAEVNSLR SREYWDYEAH VPSWGNQDDY QLVRLGRGK YSEVFEAINI</p> <p>TNNERVVVKI LKPVKKKKIK REVKILENLR GGTNIIKLID TVKDPVSKTP ALVFEYINNT</p> <p>DFKQLYQILT DFDIRFYMYE LLKALDYCHS KGIMHRDVKP HNVMDHQK KLRLIDWGLA</p> <p>EFYHPAQEYN VRVASRYFKG PELLVDYQMY DYSLDMWSLG CMLASMIFRK EPFFHGQDNY</p> <p>DQLVRIAKVL GTDELYGYLK KYHIDLDPHF NDILGQHSRK RWENFIHSEN RHLVSPEALD</p> <p>LLDKLLRYDH QQRLTAKEAM EHPYFYPVVK EQSQPCAENT VLSSGLTAAR <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</b></p>
Characteristics:	Key Benefits:

## Product Details

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- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
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Grade:	custom-made
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## Target Details

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Target:	CSNK2A2
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Alternative Name:	Csnk2a2 ( <a href="#">CSNK2A2 Products</a> )
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Background:	Casein kinase II subunit alpha' (CK II alpha') (EC 2.7.11.1),FUNCTION: 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. Phosphorylates a number of DNA repair proteins in response to DNA damage, such as MDC1, RAD9A, RAD51 and HTATSF1, promoting their recruitment to DNA damage sites. 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
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## Target Details

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. {ECO:0000250|UniProtKB:P19784}.

Molecular Weight: 41.2 kDa

UniProt: [O54833](#)

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

## Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months