antibodies

Datasheet for ABIN3131778 CSNK2A2 Protein (AA 1-350) (His tag)

Image



Overview

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

Product Details

Sequence:	MPGPAAGSRA RVYAEVNSLR SREYWDYEAH VPSWGNQDDY QLVRKLGRGK YSEVFEAINI	
	TNNERVVVKI LKPVKKKKIK REVKILENLR GGTNIIKLID TVKDPVSKTP ALVFEYINNT	
	DFKQLYQILT DFDIRFYMYE LLKALDYCHS KGIMHRDVKP HNVMIDHQQK KLRLIDWGLA	
	EFYHPAQEYN VRVASRYFKG PELLVDYQMY DYSLDMWSLG CMLASMIFRK EPFFHGQDNY	
	DQLVRIAKVL GTDELYGYLK KYHIDLDPHF NDILGQHSRK RWENFIHSEN RHLVSPEALD	
	LLDKLLRYDH QQRLTAKEAM EHPYFYPVVK EQSQPCAENT VLSSGLTAAR	
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a	
	ocquence without tag. Tag location is at the discretion of the manufacturer. If you have a	
	special request, please contact us.	
Characteristics:	,	
Characteristics:	special request, please contact us.	
Characteristics:	 special request, please contact us. Made in Germany - from design to production - by highly experienced protein experts. 	

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Product Details	
	This protein is a made to order protein and will be made for the first time for your order. Our
	experts in the lab will ensure that you receive a correctly folded protein.
	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.
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	(other companies might charge you for any performed steps in the expression process for
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	experiments or purification optimization).
	When you order this made-to-order protein you will only pay upon receival of the correctly
	folded protein. With no financial risk on your end you can rest assured that our experienced
	protein experts will do everything to make sure that you receive the protein you ordered.
	The concentration of our recombinant proteins is measured using the absorbance at 280nm.
	The protein's absorbance will be measured in several dilutions and is measured against its
	specific reference buffer.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in bacterial culture:
	1. In a first purification step, the protein is purified from the cleared cell lysate using three
	different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate
	fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step
	through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and
	Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Endotoxin has not been removed. Please contact us if you require endotoxin removal.
Grade:	Crystallography grade
Target Details	
Target:	CSNK2A2
Alternative Name:	Csnk2a2 (CSNK2A2 Products)

Background: Catalytic subunit of a constitutively active serine/threonine-protein kinase complex that

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	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 (By similarity). {ECO:0000250}.	
Molecular Weight:	42.2 kDa Including tag.	
UniProt:	054833	
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 gurantee though.	
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the	
	recombinant protein with the default tag will be insoluble our protein lab may suggest a higher	
	molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible	
	options with you in detail to assure that you receive your protein of interest.	
Restrictions:	For Research Use only	

Handling

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Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.

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Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process