

Datasheet for ABIN3094249 **NUAK2 Protein (AA 1-628) (Strep Tag)**



Overview

Quantity:	250 μg
Target:	NUAK2
Protein Characteristics:	AA 1-628
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NUAK2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details	
Brand:	AliCE®
Sequence:	MESLVFARRS GPTPSAAELA RPLAEGLIKS PKPLMKKQAV KRHHHKHNLR HRYEFLETLG
	KGTYGKVKKA RESSGRLVAI KSIRKDKIKD EQDLMHIRRE IEIMSSLNHP HIIAIHEVFE
	NSSKIVIVME YASRGDLYDY ISERQQLSER EARHFFRQIV SAVHYCHQNR VVHRDLKLEN
	ILLDANGNIK IADFGLSNLY HQGKFLQTFC GSPLYASPEI VNGKPYTGPE VDSWSLGVLL
	YILVHGTMPF DGHDHKILVK QISNGAYREP PKPSDACGLI RWLLMVNPTR RATLEDVASH
	WWVNWGYATR VGEQEAPHEG GHPGSDSARA SMADWLRRSS RPLLENGAKV CSFFKQHAPG
	GGSTTPGLER QHSLKKSRKE NDMAQSLHSD TADDTAHRPG KSNLKLPKGI LKKKVSASAE
	GVQEDPPELS PIPASPGQAA PLLPKKGILK KPRQRESGYY SSPEPSESGE LLDAGDVFVS
	GDPKEQKPPQ ASGLLLHRKG ILKLNGKFSQ TALELAAPTT FGSLDELAPP RPLARASRPS
	GAVSEDSILS SESFDQLDLP ERLPEPPLRG CVSVDNLTGL EEPPSEGPGS CLRRWRQDPL
	GDSCFSLTDC QEVTATYRQA LRVCSKLT

Sequence without tag. The proposed Strep-Tag is based on experience s 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.

Characteristics:

Key Benefits:

- · Made in Germany from design to production by highly experienced protein experts.
- · Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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.

Expression System:

- ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- · The protein's absorbance will be measured against its specific reference buffer.
- · We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

NOAK Tamily SNF 1-like kinase 2 (EC 2.7.11.1) (Omphaiocele kinase 2) (SNF 1/AMP kinase-
related kinase) (SNARK),FUNCTION: Stress-activated kinase involved in tolerance to glucose
starvation. Induces cell-cell detachment by increasing F-actin conversion to G-actin. Expression
is induced by CD95 or TNF-alpha, via NF-kappa-B. Protects cells from CD95-mediated
apoptosis and is required for the increased motility and invasiveness of CD95-activated tumor
cells. Phosphorylates LATS1 and LATS2. Plays a key role in neural tube closure during
embryonic development through LATS2 phosphorylation and regulation of the nuclear
localization of YAP1 a critical downstream regulatory target in the Hippo signaling pathway
(PubMed:32845958). {ECO:0000269 PubMed:14575707, ECO:0000269 PubMed:14976552,
ECO:0000269 PubMed:15345718, ECO:0000269 PubMed:19927127,
ECO:0000269 PubMed:32845958}.
69.6 kDa

Application Details

Q9H093

Molecular Weight:

UniProt:

Comment:

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.

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Application Details

Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months