

Datasheet for ABIN3137051 ALPK1 Protein (AA 1-1231) (Strep Tag)



Overview

Quantity:	250 µg
Target:	ALPK1
Protein Characteristics:	AA 1-1231
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ALPK1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MNNQDAVASI LHECKQVLDR LLLETPDVST EDKSEDQRCR ASLPSELRTL IQEAEEMKWP
	FVPEKWQYKQ AMSPEDKTNL QDVIGAGLQQ LLAALRASIL VQDCAAASAI VFLMDRFLYG
	LDVSGKLLQV AKGLHKLKPA TPIAPQVVIR QARVSVNSGK LLKAEYILSS LISNNGATGT
	WLYRNESDKV LVQSVCIQIR GQILQKLGMW YEAAELIWAS VIGYLTLPQP DKKGISTSLG
	ILADIFVSMS KTDYEKFKKS PKVNLALLKE FDHHLLSAAE ACKLAAAFSA YTPLFVLRAV
	NIRGTCLLSY SCSADCPPGM KSVHLCEAKE AFEIGLLTKK DGELVSGKQE LHSFIKAAFG
	LTTVHSRLHG ETDAVRAARQ LCSEAVGKLY TFSTSPTSQD REGLSQEIMS LISQVKGHLR
	VQSFPNLDVC SYVPESFKCG LDRLILHGHV DFQQILETYS QHHTSVCEVF ESTCGNSKSN
	QRDTKSEVCI TTLKTETNTA DTMVATLERV SSQDSRSTAS SKMSKKDQGK LQRERGRSWT
	RSKAFRVSLD LDMETETEPP NHSNGGTDVF NKSLRDNSSS CSWGRLSGLS SSTSWEEVNC
	AVQDVVRKGS GQEKHPVEAQ SSEAVSEEPK RNRSSRAVFL SSKLRGVSLQ TTGDDNLESS

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3137051 | 02/26/2025 | Copyright antibodies-online. All rights reserved. PSQLHNHTSI LPFNAKDTCL ASGAGLVETA EGSNNTSLQS SHSCGSDSWS LSSSDRFTDV TTNPSVQEEE PSGIMGDVPE SKYDFKDWHG EKNGGTLTEI CTGPELTFAP SSVDPEGETA ESTDDGLSPS QVALGCLEGS HSMSTRRTFF PDGSVQNADS AKTGCSVRDQ TVDPDASTVD EEGQMLDSTE VCSIGQDGAH RPRALRSGQS AEGPKSFVNG SRPSPIFDED FSTTEEGEEL GSMLKSSQNS SSYSPWWLKS PAFSRSSSDG ESSWSLLNSS RSSFASLAGQ TSQEILEART LQPDDLEKLL AGVRHDWLLQ RLENTGVLKS NQLQQAHSAL LLKYSKKSEL WTAQETVVYL GDYLKVKKKG KQRNAFWVHY LHQEETLGRY VGKEYKERKG LRHHFTDVER QMTAQHYVTE FNKRLYEQKI PTQIFYVPST ILLILEDRTI KGCISVEPYI LGEFVKLSNN TKVVKNEYKA TEYGLAYGHF SYEFSNHRDV VVDLQGWVTG NGKGLIYLTD PQIHSVDQKD VTTNFGKRGI FYFFNNQHAS CNEICHRLSL TRPSLEQTSK V

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!

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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).
Grade:	custom-made

Target Details

Target:	ALPK1
Alternative Name:	Alpk1 (ALPK1 Products)
Background:	Alpha-protein kinase 1 (EC 2.7.11.1),FUNCTION: Serine/threonine-protein kinase that detects
	bacterial pathogen-associated molecular pattern metabolites (PAMPs) and initiates an innate
	immune response, a critical step for pathogen elimination and engagement of adaptive
	immunity (By similarity). Specifically recognizes and binds ADP-D-glycero-beta-D-manno-
	heptose (ADP-Heptose), a potent PAMP present in all Gram-negative and some Gram-positive
	bacteria (PubMed:30111836). ADP-Heptose-binding stimulates its kinase activity to
	phosphorylate and activate TIFA, triggering pro-inflammatory NF-kappa-B signaling (By
	similarity). May be involved in monosodium urate monohydrate (MSU)-induced inflammation by
	mediating phosphorylation of unconventional myosin MYO9A (By similarity). May also play a
	role in apical protein transport by mediating phosphorylation of unconventional myosin MYO1A
	(By similarity). May play a role in ciliogenesis (By similarity). {ECO:0000250 UniProtKB:Q96QP1,
	ECO:0000269 PubMed:30111836}.
Molecular Weight:	136.1 kDa
UniProt:	Q9CXB8
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

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Application Detai	ls
	guarantee though.
Comment:	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 post-translational
	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!
Restrictions:	For Research Use only
Handling	
Format:	Liquid

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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