antibodies

# Datasheet for ABIN3083064 LIMK2 Protein (AA 1-638) (Strep Tag)

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#### Overview

Quantity:	1 mg
Target:	LIMK2
Protein Characteristics:	AA 1-638
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This LIMK2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Sequence:	MSALAGEDVW RCPGCGDHIA PSQIWYRTVN ETWHGSCFRC SECQDSLTNW YYEKDGKLYC
	PKDYWGKFGE FCHGCSLLMT GPFMVAGEFK YHPECFACMS CKVIIEDGDA YALVQHATLY
	CGKCHNEVVL APMFERLSTE SVQEQLPYSV TLISMPATTE GRRGFSVSVE SACSNYATTV
	QVKEVNRMHI SPNNRNAIHP GDRILEINGT PVRTLRVEEV EDAISQTSQT LQLLIEHDPV
	SQRLDQLRLE ARLAPHMQNA GHPHALSTLD TKENLEGTLR RRSLRRSNSI SKSPGPSSPK
	EPLLFSRDIS RSESLRCSSS YSQQIFRPCD LIHGEVLGKG FFGQAIKVTH KATGKVMVMK
	ELIRCDEETQ KTFLTEVKVM RSLDHPNVLK FIGVLYKDKK LNLLTEYIEG GTLKDFLRSM
	DPFPWQQKVR FAKGIASGMA YLHSMCIIHR DLNSHNCLIK LDKTVVVADF GLSRLIVEER
	KRAPMEKATT KKRTLRKNDR KKRYTVVGNP YWMAPEMLNG KSYDETVDIF SFGIVLCEII
	GQVYADPDCL PRTLDFGLNV KLFWEKFVPT DCPPAFFPLA AICCRLEPES RPAFSKLEDS
	FEALSLYLGE LGIPLPAELE ELDHTVSMQY GLTRDSPP
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression

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	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:
	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.</li> <li>These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	This protein is a <b>made-to-order protein</b> 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 <b>made-to-order proteins</b> 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:
	<ul> <li>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.</li> </ul>
	<ul> <li>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!</li> </ul>
	Concentration:
	<ul> <li>The concentration of our recombinant proteins is measured using the absorbance at 280nm.</li> <li>The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.</li> <li>We use the Eveness's Protection tool to determine the characteristic coefficient of each protein.</li> </ul>
	• We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):
	1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag

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 2/4 | Product datasheet for ABIN3083064 | 04/16/2024 | Copyright antibodies-online. All rights reserved. capture material. Eluate fractions are analyzed by SDS-PAGE.2. Protein containing fractions of the best purification are subjected to second purification step<br/>through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and<br/>Western blot.Purity:>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.Endotoxin Level:Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)</td>Grade:Crystallography grade

#### Target Details

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Target:	LIMK2
Alternative Name:	LIMK2 (LIMK2 Products)
Background:	LIM domain kinase 2 (LIMK-2) (EC 2.7.11.1),FUNCTION: Serine/threonine-protein kinase that
	plays an essential role in the regulation of actin filament dynamics (PubMed:10436159,
	PubMed:11018042). Acts downstream of several Rho family GTPase signal transduction
	pathways (PubMed:10436159, PubMed:11018042). Involved in astral microtubule organizatio
	and mitotic spindle orientation during early stages of mitosis by mediating phosphorylation of
	TPPP (PubMed:22328514). Displays serine/threonine-specific phosphorylation of myelin basic
	protein and histone (MBP) in vitro (PubMed:8537403). Suppresses ciliogenesis via multiple
	pathways, phosphorylation of CFL1, suppression of directional trafficking of ciliary vesicles to
	the ciliary base, and by facilitating YAP1 nuclear localization where it acts as a transcriptional
	corepressor of the TEAD4 target genes AURKA and PLK1 (PubMed:25849865).
	{ECO:0000269 PubMed:10436159, ECO:0000269 PubMed:11018042,
	EC0:0000269 PubMed:22328514, EC0:0000269 PubMed:25849865,
	ECO:0000269 PubMed:8537403}.
Molecular Weight:	72.2 kDa
UniProt:	P53671
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.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from

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## Application Details

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

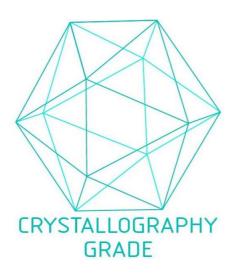
Restrictions:

For Research Use only

# Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
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

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