

# Datasheet for ABIN3134628 MAP4K1 Protein (AA 1-827) (Strep Tag)



Overview

Quantity:	250 µg
Target:	MAP4K1
Protein Characteristics:	AA 1-827
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAP4K1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Brand:	AliCE®
Sequence:	MALVDPDIFN KDPREHYDLL QRLGGGTYGE VFKARDKVSK DLVALKMVKM EPDDDVATLQ
	KEILMLKTCR HANIVAYHGS YLWLQKLWIC MEFCGAGSLQ DIYQVTGSLS ELQISYVCRE
	VLQGLAYLHS EKKIHRDIKG ANILINDCGE VKLADFGISA QIGATLARRL SFIGTPYWMA
	PEVAAVALKG GYNELCDIWS LGITAIELAE LQPPLFDVHP LRVLFLMTKS GYQPPRLKEK
	SRWSSSFHNF VKVTLTKNSK KRPSATKMLS HQLVSQPGLN RGLILDLLDK MKNPGKGLPV
	DIEDEEPEPP PAIPRRIRST YRASSLGIPD ADCCRRQMEF QRPRCVDCRP QAETVRLYPP
	AHFGSTSPRS QLSDSDDDYD DVDIPAPSEN IPPPLPPKPK FRSPSDDGSG GIRDDGQLSP
	GVLVRCASGP PPRTPRPGPP PATCSPHLTA RSDPSLWNPA APEPGQPPLV PPRKEKMRGK
	MENEKRREKY PLLVKLFNGC PLQIHSTAAW THPSTKDQNL LLGAEEGIFI LNRNDQEATL
	EMIFPGRTTW LYCINNLLMS LSGKTPYLYS HSILGLLERK DGRTGSPIAH ISPHRLLARK
	NMVSSKIQDT KGCRACCVAE SASSGGPFLC GALETSVVLL QWYQPMNKFL LVRQVLFPLP

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 ABIN3134628 | 02/25/2025 | Copyright antibodies-online. All rights reserved. TPLPVFTLLT TPGSELPAVC IGVSPGQAAK SVLFHTVRFG ALSCWLDDSS TEHKGPVQVI QVKEDMVMVL MDGSLKLVTP EGAPAPGLRT PEIPMTEAVE AVAMVEDRLE AFWKHGVQVW APGLKQPLQE LRDPTLTFRL LCSPRPVVVE TRPTDDPTAP SNLYIQE 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

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	Sustem (AliCE®)
	System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made
Target Details	
Target:	MAP4K1
Alternative Name:	Map4k1 (MAP4K1 Products)
Background:	Mitogen-activated protein kinase kinase kinase kinase 1 (EC 2.7.11.1) (Hematopoietic
	progenitor kinase) (HPK) (MAPK/ERK kinase kinase kinase 1) (MEK kinase kinase 1) (MEKKK
	1),FUNCTION: Serine/threonine-protein kinase, which may play a role in the response to
	environmental stress (By similarity). Appears to act upstream of the JUN N-terminal pathway
	(PubMed:9003777). May play a role in hematopoietic lineage decisions and growth regulation
	(PubMed:9003777). Able to autophosphorylate (PubMed:9003777). Together with CLNK, it
	enhances CD3-triggered activation of T-cells and subsequent IL2 production
	(PubMed:11509653). {ECO:0000250 UniProtKB:Q92918, ECO:0000269 PubMed:11509653,
	ECO:0000269 PubMed:9003777}.
Molecular Weight:	91.5 kDa
UniProt:	P70218
Pathways:	TCR Signaling, Signaling of Hepatocyte Growth Factor Receptor
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
	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.
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Application Details	
	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
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months