

Datasheet for ABIN3135955

## PLEKHM1 Protein (AA 1-1074) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	PLEKHM1
Protein Characteristics:	AA 1-1074
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PLEKHM1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	<p>MLSVENGLDP RAAIQVIKKK LVGSVKALQK QHVSLDTVVT SEDGDANTMC SALEAVFIHG</p> <p>LHAKHIRAEA GSKRKKHHTQ KALPQPVFWP LLKAITHRHI VSDLEHLVFI NTDVGRRCRAW</p> <p>LRLALNDGLM ECYLKLLLQE PARLCEYYQP TALLRDAAEA EFLLSFLQGL TSLSFELSYK</p> <p>SAILNEWTLT PLSLSGLCPL SELDPLTTSG AELQRKESLD SISHSSGSED IEVQHS GHKI</p> <p>RRNRKLTASS LSLDTASSSQ LSCSLNSDSC LLQENGPKSP DHSEEPMSYD SDLGMANTDD</p> <p>PDRSLQEVLS EFSKAQVNSA PSSGPNQEPD TPMFQTPLSL HSLATSTHLH FEGSEELFPA</p> <p>HKSSGTSSGG HKHQLLPQET PDEKQLGTAQ AGPAQSTSDQ QPSSPVGGAA GQSGPWKAL</p> <p>EYGRVGPKLV VSSPTSPKGK SWISEDDFCR PPQEPALKSA AGLCTSPVQD TPESRAALHG</p> <p>PFSQGPRKSC SLGALDKACV PSQACGNAQP APAPAPAPAP APAPAPGVTQ DHKNFCVVHR</p> <p>RQMGLSNPFR GLMKLGTVAR RGAMGIWKEF FCELSPLEFR LYLSDEERTC VESCSLLRCE</p> <p>AVGPAHSDGR FELVFSGKKL ALRASSQDEA EDWLDRVREA LQKVRPQQED EWNVIQYDPDQ</p>

AEDAPEAPPD SLPPYSTLLP EPAGAQGMQL DWTSQVPEP DAIKESLLYL YADRTWVPYI  
FSLSLESLKC FRVRNNEKML SDSHGVETIR DILPDTSLGG PAFFKIITAK AVLKLQAKNT  
EEATHWRDLV RKLVSYLEE AEEAVTLGGS LDEKCQEVLEK FATRENGFLL QYLVAIPTEK  
GLDSQGCFCFCA GCSRQIGFSF VRPKLCAFSG LYYCDFCHQD DASVIPARII HNWDLTKRPV  
CRQALKFLAQ IRAQPLINLQ LVNASLYEHV ERMHLIGRSR EQLKLLGDYL GLCRSGALKE  
LCKRLSHRNY LLESPHRFSV ADLQQIAEGV YEGFLKALIE FASQHVYHCD LCTQRGFICQ  
ICHHQDIIFP FEFDTTVRCA ECRTVFHQSC QAVVRKGCPR CARRRKYQEQ NVVS

**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.**

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### 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 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!

#### Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.

## Product Details

- 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:	PLEKHM1
Alternative Name:	Plekhm1 ( <a href="#">PLEKHM1 Products</a> )
Background:	<p>Pleckstrin homology domain-containing family M member 1 (PH domain-containing family M member 1),FUNCTION: Acts as a multivalent adapter protein that regulates Rab7-dependent and HOPS complex-dependent fusion events in the endolysosomal system and couples autophagic and the endocytic trafficking pathways. Acts as a dual effector of RAB7A and ARL8B that simultaneously binds these GTPases, bringing about clustering and fusion of late endosomes and lysosomes. Required for late stages of endolysosomal maturation, facilitating both endocytosis-mediated degradation of growth factor receptors and autophagosome clearance. Interaction with Arl8b is a crucial factor in the terminal maturation of autophagosomes and to mediate autophagosome-lysosome fusion (PubMed:25498145). Positively regulates lysosome peripheral distribution and ruffled border formation in osteoclasts (PubMed:27777970). May be involved in negative regulation of endocytic transport from early endosome to late endosome/lysosome implicating its association with Rab7. May have a role in sialyl-lex-mediated transduction of apoptotic signals (By similarity). Involved in bone resorption (PubMed:27777970). {ECO:0000250 UniProtKB:Q9Y4G2, ECO:0000269 PubMed:25498145, ECO:0000269 PubMed:27777970}.</p>
Molecular Weight:	118.5 kDa
UniProt:	<a href="#">Q7TSI1</a>

## 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 Details

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guarantee though.

Comment:

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Restrictions:

For Research Use only

## Handling

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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