Datasheet for ABIN3135993

PLEKHM2 Protein (AA 1-1018) (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	PLEKHM2
Protein Characteristics:	AA 1-1018
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PLEKHM2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MEPREVKDRI LENISLSVKK LQSYFAACED ETPAIRNHDK VLQRLCEHLD HALLYGLQDL SSGYWVLVVH FTRREAIRQI EVLQHVATNL GRSRAWLYLA LNENSLESYL RLFQENLGLL QKYYVRNALV CSHDHLTLFL TLVSGLEFIR FDLDLDAPYL DLAPYMPDYY KPQYLLDFED RLPSSVHGSD SLSLNSFNSV TSTNLEWDDS AIAPSSEDGD LTDTISGPRS TASDLTSSKT STKSPTQRHN PFNEEQAETA SSDTTPVHTT SQEKEEAQAP DQPDACTELE VIRVTKKKKI GKKKKTKLDE DASPLHPTSS QQKCGQQGEG DGLVGTPGLA RDPSDTVLAS PQEQGEGLSS TAGSSELSEL SQMGLLIPEM KDTSMECLGQ PLSKVIDKLH GQLDPSTWCS HADPPEQSFR AGSPGEAPEK PPFCDFSEGL PAPMDFYRFT VESPSTVAPG GGHHDPPGPS QPLHVPGSPA AALQEEEEGG RGEGQTSQPV EDRQGEEIQE PEPQEPDSQL PLVSQEPLVS QEPVPEPVSQ PEPGTHEALC KLKRDQPSPC LSSAEDSGVE EGQGSPSEMT HPSEFRVDNN HLLLLMIHVF RENEEQLFKM IRMSTGHMEG NLQLLYVLLT DCYVYLLRKG ATEKPYLVEE AVSYNELDYV

SVGLDQQTVK LVCTNRRKQF LLDTADVALA ELFLASLKSA MIKGCREPPY PSILTDATME KLALAKFVAQ ESKCEASAVT VHFYGLVHWE DPMEEALGPV PCQCSPAEGT ITKEGMLHYK ASTSYLGKEH WKACFVVLSN GILYQYPDRT DVIPLLSVNM GGEQCGGCRR SNTTDRPHAF QVILADRPCL ELSADSEAEM ADWMQHLCQA VSKGVIPQGI APSPCIPCCL VITEDRLFTC HEDCQTSFFR SLGTARLADI TAISTELGKE YCVLEFSQDS PQLLQPWVIY LSCTSELDRF LTALSSGWKA IYQVDLPHKA IHEASIKQKF EDALSLIHSA WQRSDSLCRG RASRDPWC

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 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.
- The protein's absorbance will be measured against its specific reference buffer.

Product Details

	• 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:	PLEKHM2
Alternative Name:	Plekhm2 (PLEKHM2 Products)
Background:	Pleckstrin homology domain-containing family M member 2 (PH domain-containing family M member 2),FUNCTION: Plays a role in lysosomes movement and localization at the cell periphery acting as an effector of ARL8B. Required for ARL8B to exert its effects on lysosome location, recruits kinesin-1 to lysosomes and hence direct their movement toward microtubule plus ends. Binding to ARL8B provides a link from lysosomal membranes to plus-end-directed motility. Critical factor involved in NK cell-mediated cytotoxicity. Drives the polarization of cytolytic granules and microtubule-organizing centers (MTOCs) toward the immune synapse between effector NK lymphocytes and target cells. Required for maintenance of the Golgi apparatus organization. May play a role in membrane tubulation. {ECO:0000250|UniProtKB:Q8IWE5}.
Molecular Weight:	112.7 kDa
UniProt:	Q80TQ5

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. During lysate production, the cell wall and other cellular components that are not required for

Application Details

	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
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

Copyright antibodies-online. All rights reserved.