

Datasheet for ABIN3094583
PLEKHM2 Protein (AA 1-1019) (Strep Tag)



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1 Image

Overview

Quantity:	1 mg
Target:	PLEKHM2
Protein Characteristics:	AA 1-1019
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PLEKHM2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MEPGEVKDRI LENISLSVKK LQSYFAACED EIPAIRNHDK VLQRLCEHLD HALLYGLQDL SSGYWVLVWH FTRREAIKQI EVLQHVATNL GRSRAWLYLA LNENSLESYL RLFQENLGLL HKYYVKNALV CSHDHLTLFL TLVSGLEFIR FELDLDPYL DLAPYMPDYY KPQYLLDFED RLPSSVHGSD SLSLNSFNSV TSTNLEWDDS AIAPSSSEDYD FGDVFPVAVPS VPSTDWEDGD LTDTVSGPRS TASDLTSSKA STRSPTQRQN PFNEEPAETV SSSDTPVHT TSQEKEEAQA LDPPDACTEL EVIRVTKKKK IGKKKKSRSD EEASPLHPAC SQKKCAKQGD GDSRNGSPSL GRDSPDTMLA SPQEEGEGPS STTESSERSE PGLLIPEMKD TSMERLGQPL SKVIDQLNGQ LDPSTWCSRA EPPDQSFR TG SPGDAPERPP LCD FSEGLSA PMDFYRFTVE SPSTVTSGGG HHDPAGLGQP LHPVSSPEAA GQEEEGGGGE GQTPRPLEDT TREAQELEAQ LSLVREGPVS EPEPGTQEV L CQLKRDQSP CLSSAEDSGV DEGQGSPSEM VHSSEFRVDN NHLLLLMIHV FRENEQLFK MIRMSTGHME GNLQLLYVLL TDCYVYLLRK GATEKPYLVE EAVSYNELDY VSVGLDQQT V KLVCTNRRKQ FLDTADVAL AEFFLASLKS AMIKGCREPP YPSILTDATM
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EKLALAKFVA QESKCEASAV TVRFYGLVHW EDPTDESLGP TPCHCSPPEG TITKEGMLHY
KAGTSYLGKE HWKTCFVVLN NGILYQYPDR TDVIPLLSVN MGGEQCGGCR RANTTDRPHA
FQVILSDRPC LELSAESEAE MAEWMQHLCQ AVSKGVIPQG VAPSPCIPCC LVLTDRLFT
CHEDCQTSFF RSLGTAKLGD ISAVSTEPGK EYCVLEFSQD SQQLLPWVI YLSCTSELDL
LLSALNSGWK TIYQVDLPHT AIQEASNKKK FEDALSLIHS AWQRSDSLCR GRASRDPMC

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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 in several dilutions and is measured against its

Product Details

specific reference buffer.

- 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 capture material. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and 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)
Grade:	Crystallography grade

Target Details

Target:	PLEKHM2
Alternative Name:	PLEKHM2 (PLEKHM2 Products)
Background:	<p>Pleckstrin homology domain-containing family M member 2 (PH domain-containing family M member 2) (Salmonella-induced filaments A and kinesin-interacting protein) (SifA and kinesin-interacting protein),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 (PubMed:28325809, PubMed:22172677, PubMed:25898167, PubMed:24088571).</p> <p>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 (PubMed:24088571). Required for maintenance of the Golgi apparatus organization (PubMed:22172677). May play a role in membrane tubulation (PubMed:15905402). {ECO:0000269 PubMed:15905402, ECO:0000269 PubMed:22172677, ECO:0000269 PubMed:24088571, ECO:0000269 PubMed:25898167, ECO:0000269 PubMed:28325809}.</p>
Molecular Weight:	112.8 kDa
UniProt:	Q8IWE5

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.
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Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
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Restrictions:	For Research Use only
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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)



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process