Datasheet for ABIN3136350

PLEKHH2 Protein (AA 1-1491) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	PLEKHH2
Protein Characteristics:	AA 1-1491
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PLEKHH2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MEEPSEPEGL IDWKERCVAL EAQLMKFRVQ ASKIRELLAD KMQQLERQVI DAERQAEKAF QEVQVMEEKL KAANIQTSES ETRLYKKCQD LESVMQEKDD IIQNLALRLE EQKQVRIQEA KIIEEKAAKI KEWVTVKLNE LEVENQNLRF INQTQTEEIR AIQSKLQELQ EKKISCVSSP KTSEGQRNLT FGCFLSRAKS PPCVVRCEEV SKMASNEPEI TEGRCVEEME IAEKPADNQV QENSRSQRKL HETSCSSEQN QKTRASFAMD GGTSQNSGVP VSDWSSDEDD GSKGRSKSRC TSTLSSHTSE EGGQCGRLGS EAYLTASDDS SSIFEEETFD GNRPEQKKLC SWQQKAPWKA QGNLAKGRSQ SGVKEQDSSS DELNKKFHSQ RLDYTSSSSE ANTPSPILTP ALTPRYPNSL PGKGGAPLVP PPFQPPPKLR VPNVFSISVA LTKRHLSQPQ LCSDRMFGTN RNAISMIRPL RPQETDLDVV DGDGAEAVNR MDTGCDDGLF SYDSQDPPPC ADDQENSEAP KKAPCNKPPT PPLHRFPSWE SRIYAVAKSG IRVSEAFNME HANKNSADIL SYSAASLYTS LIYKNMTTPV YTTLKGKATQ ISSSPFLDDS SGSDEEDSSR SSSRLSESDA RSRSGPSSPR AMKRGVSDSS

AASESDYAIP PDAYPIDAEC SQPEQKLLKT CLASCDNGKN EPLEKSGYLL KMSVRVKTWK RRWFVLKGGE LLYYKSPSDV IRKPQGHIEL SASCSILRGD NKQTVQLATE KHTYYLTADS PNILEEWIKV LQSVLRVQAA NPLCLQPEGK PAVKGLLTKV KHGYSKRVWC MLVGKVLYYF RNQEDKFPLG QLKLWEAKVE EVDRSCDSDE DYETRGCYLL STHYTIIVHP KDQGPTYLLI GSKHEKEAWL YHLTVAAGSN NINVGSEFEQ LVCKLLNIEG EPSSQIWRHP MLCHSKEGIL SPLTTLPSEA LQTEAIKLFK TCQLFINAAV DSPAIDYHIS LAQSALQVCL THPELQNEIC CQLIKQTRRR QLQNQPGPLQ GWQLLALCVG LFLPHHPFLW LLQLHLQRNA DSRTEFGKYA IYCQRCVERT QQNGDREARP SRMEILSTLL RNPYHHSRPF SIPVHFMNGL YQVVGFDAST TVEEFLNTLN QDTGMRKPAQ SGFALFTDDP SGRDLEHCLQ GNIKICDIIS KWEQASKEQQ PGKCEGSRTV RLTYKNRLYF SVQARGETDR EKTLLLYQTN DQIINGLFPL NKDLALEMAA LLAQVDIGDF ERPFSTPAGP VTNQCKANQT LKQVIERFYP KRYREGCSEE QLRQLYQRLS TKWMALRGHS AADCIRIYLT VARKWPFFGA KLFFAKPIAP SSLGNNCVWL AVHENGLSIL EYTSMRLVTS YMYKGLMTFG GYQEDFMVVV STQSKDRPTE KLLFAMAKHK ILEITLLIAS YINSFHQQKT TFHHLSAPAL LSPRTQAPQA RVMGSQPPLS NSRPTKGPTL L

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

Product 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!

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 System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	PLEKHH2
Alternative Name:	Plekhh2 (PLEKHH2 Products)
Background:	Pleckstrin homology domain-containing family H member 2,FUNCTION: In the kidney glomerulus may play a role in linking podocyte foot processes to the glomerular basement membrane. May be involved in stabilization of F-actin by attenuating its depolymerization. Can recruit TGFB1I1 from focal adhesions to podocyte lamellipodia. {ECO:0000269|PubMed:22832517}.
Molecular Weight:	167.7 kDa
UniProt:	Q8C115

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

Application Details

	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!
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