Datasheet for ABIN3135738

ANKLE2 Protein (AA 1-964) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	ANKLE2
Protein Characteristics:	AA 1-964
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ANKLE2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MLWQRLAVVE WAALAWELLG ASVLFIAVRW LVRRLEKRPR DLNRCGTLSS PPSASEAVAA QPGEVTMDAM MARLKLLNPD DLRKEVMKAG LKCGPITSTT RFIFEKKLAQ ALLEQGGLLT SSLPKPSAVT AMAFIQGTSR TPPSVDGKQT QQACFSEDRD FGYSVGLNPP EEEAVASSVH PVPFSASTRN DNHKAGVTAP KEPLVYYGVC PVYEDGPVRH ERIHVYEDKK EALQAAKLIK GSRFKAFRTR EDAEKFARGI CDYLPSPNKT TPLLSPVKAV PLGGSDGLKA DGLCLAESET VNKERANSYK NPRTQDLTAK LRKAVENGEE HTFSDLIWSN PRYLIGSGDN PTIVQEGCRY NVMHVAAKEN QASMCQLTLE TLENPEFMRL MYPDDNMDML QKRILYVVDL YLNTPDKVGF DTPLHFACKF GNVDVVNVLS SHPLIVKNRK NKYGKTPEEV ICERSQNKSP ALKERIREYL MGHYYVPLLR AEDTSPVIGE LWSSDQKAEA SNTAHCRSSP RDPVMTLRAF VGPLSPSKAE DFRKLWKTPP RKKAGFFHSI RKSDPERGIE RVGRELAHEL GYPWVEYWEF LGCFVDLSSQ EGLQRLEEYL IQKELSKKAQ QEIRENEGCL QDRTSDFGSG KKYSNSISVG AFLDGDDDSS

LEEIKNQQNT VPSQSQPTTD KFQTSKSGSL PLGQKVDPGE TSVGTYPDKG RNGFCHPLNH RTADGRGLEA TNGEEALPPP VSVLTQELNK LNLQSLGDSL HETPDKNGKL EDEVLPSRKG AADSDLLASP PAIASLGKKQ VRTNTEVSEA MAEMSLGPKS PQLGVQAGLE PILSSATVDS TKRLFLSGEE PSKLDRDVLA ALECANIDPG LYPAIHRWKS TVMCYSPSDR QSWPSPALKG KFTTELVDLD CSHSCSGRCS PAGSSPSKPG HTSSSSGLHS PGRYSPAHGR HFQRVAHVAR LAAL

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.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Product Details

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:	ANKLE2
Alternative Name:	Ankle2 (ANKLE2 Products)
Background:	Ankyrin repeat and LEM domain-containing protein 2 (LEM domain-containing protein 4),FUNCTION: Involved in mitotic nuclear envelope reassembly by promoting dephosphorylation of BAF/BANF1 during mitotic exit. Coordinates the control of BAF/BANF1 dephosphorylation by inhibiting VRK1 kinase and promoting dephosphorylation of BAF/BANF1 by protein phosphatase 2A (PP2A), thereby facilitating nuclear envelope assembly. May regulate nuclear localization of VRK1 in non-dividing cells. It is unclear whether it acts as a real PP2A regulatory subunit or whether it is involved in recruitment of the PP2A complex. Involved in brain development. {ECO:0000250|UniProtKB:Q86XL3}.
Molecular Weight:	106.2 kDa
UniProt:	Q6P1H6

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 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

Application Details

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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