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Datasheet for ABIN3126152
KLHL2 Protein (AA 1-593) (Strep Tag)

Overview

Quantity:	250 µg
Target:	KLHL2
Protein Characteristics:	AA 1-593
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KLHL2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	Alice®
Sequence:	METPPLPPAC TKQGHQKPLD SKDENPEKHC PLTVNPWHMK KAFKVMNELR SQNLLCDVTI VAEDMEIPAH RVVLAACSPY FHAMFTGEMS ESRAKRVRİK EVDGWTLRML VDYYVTAEIQ VTEENVQVLL PAAGLLQLQD VKKTCCEFLE SQLHPVNCLG İRAFADMİHAC TDLLNKANTY AEQHFADVVL SEEFLNLGİE QVCSLISSDK LTİSSEEKVF EAVİAWVNİHD KDVRQEFMAR LMEİHVRLPLL PREİLVQRVE EEALVKNSSA CKDYİEAMK YİİLLPTEQRM İMKSVRİRLR TPMİNLPKİMV VVGİQAPKAI RSVECYDFKE ERWHQVAELP SRRCRAGMİVY MAGİLVFAVGG FİNGSLRVRTV DSYDPVKDQW TSVANMRDRR STİGAAVLİNG LLYAVGGFDG STİGLSSVEAY NİKSNEWFİV APMNİRRSSV GVGİVVGİLLY AVGGYDGASR QCLSTVECYN ATANEWTYİA EMSTRRSİGAG VGİVLNİLLYA VGİHDİPLVR KSVEYDİPTT NAWRQVADİM NCRRNAGVCA VİNGİLYVVGİ DDİGSCNİLSV EYİNİPTTDKİV TİVSSCİMSTG RSYAGVTİD KPL

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.

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:	KLHL2
Alternative Name:	Klhl2 (KLHL2 Products)
Background:	<p>Kelch-like protein 2,FUNCTION: Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin ligase complex that mediates the ubiquitination of target proteins, such as NPTXR, WNK1, WNK3 and WNK4, leading most often to their proteasomal degradation (PubMed:21549840). The BCR(KLHL2) complex catalyzes ubiquitination and degradation of NPTXR (PubMed:21549840). Responsible for degradative ubiquitination of the WNK kinases WNK1, WNK3 and WNK4 (By similarity). Plays a role in the reorganization of the actin cytoskeleton (By similarity). Promotes growth of cell projections in oligodendrocyte precursors (By similarity). {ECO:0000250 UniProtKB:O95198, ECO:0000269 PubMed:21549840}.</p>
Molecular Weight:	66.0 kDa
UniProt:	Q8JZP3

Application Details

Application Notes:	<p>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.</p>
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>
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.

Handling

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