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Datasheet for ABIN3082792 KLHDC2 Protein (AA 1-406) (Strep Tag)



Overview

Quantity:	1 mg
Target:	KLHDC2
Protein Characteristics:	AA 1-406
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KLHDC2 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:	MADGNEDLRA DDLPGPAFES YESMELACPA ERSGHVAVSD GRHMFVWGGY KSNQVRGLYD
	FYLPREELWI YNMETGRWKK INTEGDVPPS MSGSCAVCVD RVLYLFGGHH SRGNTNKFYM
	LDSRSTDRVL QWERIDCQGI PPSSKDKLGV WVYKNKLIFF GGYGYLPEDK VLGTFEFDET
	SFWNSSHPRG WNDHVHILDT ETFTWSQPIT TGKAPSPRAA HACATVGNRG FVFGGRYRDA
	RMNDLHYLNL DTWEWNELIP QGICPVGRSW HSLTPVSSDH LFLFGGFTTD KQPLSDAWTY
	CISKNEWIQF NHPYTEKPRL WHTACASDEG EVIVFGGCAN NLLVHHRAAH SNEILIFSVQ
	PKSLVRLSLE AVICFKEMLA NSWNCLPKHL LHSVNQRFGS NNTSGS
	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:

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- · 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 posttranslational 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 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.
- 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.

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Product Details

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)

Target Details

Target:	KLHDC2
Alternative Name:	KLHDC2 (KLHDC2 Products)
Background:	Kelch domain-containing protein 2 (Hepatocellular carcinoma-associated antigen 33) (Host cel
	factor homolog LCP) (Host cell factor-like protein 1) (HCLP-1),FUNCTION: Substrate-recognitio
	component of a Cul2-RING (CRL2) E3 ubiquitin-protein ligase complex of the DesCEND
	(destruction via C-end degrons) pathway, which recognizes a C-degron located at the extreme
	C terminus of target proteins, leading to their ubiquitination and degradation
	(PubMed:29779948, PubMed:29775578, PubMed:30526872). The C-degron recognized by the
	DesCEND pathway is usually a motif of less than ten residues and can be present in full-length
	proteins, truncated proteins or proteolytically cleaved forms (PubMed:29779948,
	PubMed:29775578, PubMed:30526872). The CRL2(KLHDC2) complex specifically recognizes
	proteins with a diglycine (Gly-Gly) at the C-terminus, leading to their ubiquitination and
	degradation (PubMed:29779948, PubMed:29775578, PubMed:30526872). The CRL2(KLHDC2)
	complex mediates ubiquitination and degradation of truncated SELENOK and SELENOS
	selenoproteins produced by failed UGA/Sec decoding, which end with a diglycine
	(PubMed:26138980, PubMed:30526872). The CRL2(KLHDC2) complex also recognizes
	proteolytically cleaved proteins ending with Gly-Gly, such as the N-terminal fragment of USP1,
	leading to their degradation (PubMed:29775578, PubMed:30526872). May also act as an
	indirect repressor of CREB3-mediated transcription by interfering with CREB3-DNA-binding
	(PubMed:11384994). {ECO:0000269 PubMed:11384994, ECO:0000269 PubMed:26138980,
	EC0:0000269 PubMed:29775578, EC0:0000269 PubMed:29779948,
	EC0:0000269 PubMed:30526872}.
Molecular Weight:	46.1 kDa
UniProt:	Q9Y2U9
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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Application Details 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 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. 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)