Datasheet for ABIN3082380 KLHDC10 Protein (AA 1-442) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	KLHDC10
Protein Characteristics:	AA 1-442
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KLHDC10 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MSAAQGWDRN RRRGGGAAGA GGGGSGAGGG SGGSGGRGTG QLNRFVQLSG RPHLPGKKKI
	RWDPVRRRFI QSCPIIRIPN RFLRGHRPPP ARSGHRCVAD NTNLYVFGGY NPDYDESGGP
	DNEDYPLFRE LWRYHFATGV WHQMGTDGYM PRELASMSLV LHGNNLLVFG GTGIPFGESN
	GNDVHVCNVK YKRWALLSCR GKKPSRIYGQ AMAIINGSLY VFGGTTGYIY STDLHKLDLN
	TREWTQLKPN NLSCDLPEER YRHEIAHDGQ RIYILGGGTS WTAYSLNKIH AYNLETNAWE
	EIATKPHEKI GFPAARRCHS CVQIKNDVFI CGGYNGEVIL GDIWKLNLQT FQWVKLPATM
	PEPVYFHCAA VTPAGCMYIH GGVVNIHENK RTGSLFKIWL VVPSLLELAW EKLLAAFPNL
	ANLSRTQLLH LGLTQGLIER LK
	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:	KLHDC10
Alternative Name:	KLHDC10 (KLHDC10 Products)
Background:	Kelch domain-containing protein 10,FUNCTION: Substrate-recognition 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:33909987). 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:33909987). The CRL2(KLHDC10)
	complex specifically recognizes proteins with a proline-glycine (Pro-Gly) or an alanine tail (CAT
	tail) at the C-terminus, leading to their ubiquitination and degradation (PubMed:29779948,
	PubMed:33909987). The CRL2(KLHDC10) complex is involved in the ribosome-associated
	quality control (RQC) pathway, which mediates the extraction of incompletely synthesized
	nascent chains from stalled ribosomes: CRL2(KLHDC10) acts downstream of NEMF and
	recognizes CAT tails associated with stalled nascent chains, leading to their ubiquitination and
	degradation (PubMed:33909987). Participates in the oxidative stress-induced cell death
	through MAP3K5 activation (PubMed:23102700). Inhibits PPP5C phosphatase activity on
	MAP3K5 (PubMed:23102700). Acts as a regulator of necroptosis (By similarity).
	{ECO:0000250 UniProtKB:Q6PAR0, ECO:0000269 PubMed:23102700,
	ECO:0000269 PubMed:29779948, ECO:0000269 PubMed:33909987}.
Molecular Weight:	49.1 kDa
UniProt:	Q6PID8
Application Details	
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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

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	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.