antibodies

Datasheet for ABIN3092976 RBCK1 Protein (AA 1-510) (Strep Tag)



Overview

Image

Quantity:	1 mg
Target:	RBCK1
Protein Characteristics:	AA 1-510
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RBCK1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MDEKTKKAEE MALSLTRAVA GGDEQVAMKC AIWLAEQRVP LSVQLKPEVS PTQDIRLWVS
	VEDAQMHTVT IWLTVRPDMT VASLKDMVFL DYGFPPVLQQ WVIGQRLARD QETLHSHGVR
	QNGDSAYLYL LSARNTSLNP QELQRERQLR MLEDLGFKDL TLQPRGPLEP GPPKPGVPQE
	PGRGQPDAVP EPPPVGWQCP GCTFINKPTR PGCEMCCRAR PEAYQVPASY QPDEEERARL
	AGEEEALRQY QQRKQQQQEG NYLQHVQLDQ RSLVLNTEPA ECPVCYSVLA PGEAVVLREC
	LHTFCRECLQ GTIRNSQEAE VSCPFIDNTY SCSGKLLERE IKALLTPEDY QRFLDLGISI
	AENRSAFSYH CKTPDCKGWC FFEDDVNEFT CPVCFHVNCL LCKAIHEQMN CKEYQEDLAL
	RAQNDVAARQ TTEMLKVMLQ QGEAMRCPQC QIVVQKKDGC DWIRCTVCHT EICWVTKGPR
	WGPGGPGDTS GGCRCRVNGI PCHPSCQNCH
	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.

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Product Details

Characteristics:

Key Benefits:

- 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.
- 2. 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

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Product Details

	Western blot.
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)
Grade:	Crystallography grade

Target Details

Target:	RBCK1
Alternative Name:	RBCK1 (RBCK1 Products)
Background:	RanBP-type and C3HC4-type zinc finger-containing protein 1 (EC 2.3.2.31) (HBV-associated
	factor 4) (Heme-oxidized IRP2 ubiquitin ligase 1) (HOIL-1) (Hepatitis B virus X-associated
	protein 4) (RING finger protein 54) (RING-type E3 ubiquitin transferase HOIL-1) (Ubiquitin-
	conjugating enzyme 7-interacting protein 3),FUNCTION: E3 ubiquitin-protein ligase, which
	accepts ubiquitin from specific E2 ubiquitin-conjugating enzymes, such as UBE2L3/UBCM4,
	and then transfers it to substrates (PubMed:12629548, PubMed:17449468,
	PubMed:18711448). Functions as an E3 ligase for oxidized IREB2 and both heme and oxygen
	are necessary for IREB2 ubiquitination (PubMed:12629548). Promotes ubiquitination of TAB2
	and IRF3 and their degradation by the proteasome (PubMed:17449468, PubMed:18711448).
	Component of the LUBAC complex which conjugates linear ('Met-1'-linked) polyubiquitin chains
	to substrates and plays a key role in NF-kappa-B activation and regulation of inflammation
	(PubMed:17006537, PubMed:21455173, PubMed:21455180, PubMed:21455181,
	PubMed:19136968). LUBAC conjugates linear polyubiquitin to IKBKG and RIPK1 and is involved
	in activation of the canonical NF-kappa-B and the JNK signaling pathways (PubMed:17006537,
	PubMed:21455173, PubMed:21455180, PubMed:21455181, PubMed:19136968). Linear
	ubiquitination mediated by the LUBAC complex interferes with TNF-induced cell death and
	thereby prevents inflammation (PubMed:17006537, PubMed:21455173, PubMed:21455180,
	PubMed:21455181). LUBAC is recruited to the TNF-R1 signaling complex (TNF-RSC) following
	polyubiquitination of TNF-RSC components by BIRC2 and/or BIRC3 and to conjugate linear
	polyubiquitin to IKBKG and possibly other components contributing to the stability of the
	complex (PubMed:17006537, PubMed:21455173, PubMed:21455180, PubMed:21455181,
	PubMed:19136968). The LUBAC complex is also involved in innate immunity by conjugating
	linear polyubiquitin chains at the surface of bacteria invading the cytosol to form the ubiquitin
	coat surrounding bacteria (PubMed:28481331). LUBAC is not able to initiate formation of the
	bacterial ubiquitin coat, and can only promote formation of linear polyubiquitins on pre-existing

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	ubiquitin (PubMed:28481331). The bacterial ubiquitin coat acts as an 'eat-me' signal for
	xenophagy and promotes NF-kappa-B activation (PubMed:28481331). Together with OTULIN,
	the LUBAC complex regulates the canonical Wnt signaling during angiogenesis
	(PubMed:23708998). Binds polyubiquitin of different linkage types (PubMed:20005846,
	PubMed:21455181). {ECO:0000269 PubMed:12629548, ECO:0000269 PubMed:17006537,
	ECO:0000269 PubMed:17449468, ECO:0000269 PubMed:18711448,
	EC0:0000269 PubMed:19136968, EC0:0000269 PubMed:20005846,
	EC0:0000269 PubMed:21455173, EC0:0000269 PubMed:21455180,
	EC0:0000269 PubMed:21455181, EC0:0000269 PubMed:23708998,
	ECO:0000269 PubMed:28481331}.
Molecular Weight:	57.6 kDa
UniProt:	Q9BYM8
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 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: Handling	For Research Use only
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request,

please contact us.

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Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

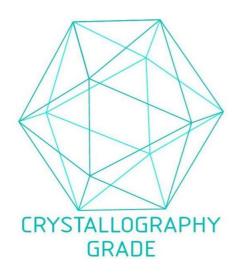


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process