antibodies

Datasheet for ABIN3076235 ZBTB48 Protein (AA 1-688) (Strep Tag)





Overview

Quantity:	1 mg
Target:	ZBTB48
Protein Characteristics:	AA 1-688
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZBTB48 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MDGSFVQHSV RVLQELNKQR EKGQYCDATL DVGGLVFKAH WSVLACCSHF FQSLYGDGSG
	GSVVLPAGFA EIFGLLLDFF YTGHLALTSG NRDQVLLAAR ELRVPEAVEL CQSFKPKTSV
	GQAAGGQSGL GPPASQNVNS HVKEPAGLEE EEVSRTLGLV PRDQEPRGSH SPQRPQLHSP
	AQSEGPSSLC GKLKQALKPC PLEDKKPEDC KVPPRPLEAE GAQLQGGSNE WEVVVQVEDD
	GDGDYMSEPE AVLTRRKSNV IRKPCAAEPA LSAGSLAAEP AENRKGTAVP VECPTCHKKF
	LSKYYLKVHN RKHTGEKPFE CPKCGKCYFR KENLLEHEAR NCMNRSEQVF TCSVCQETFR
	RRMELRVHMV SHTGEMPYKC SSCSQQFMQK KDLQSHMIKL HGAPKPHACP TCAKCFLSRT
	ELQLHEAFKH RGEKLFVCEE CGHRASSRNG LQMHIKAKHR NERPHVCEFC SHAFTQKANL
	NMHLRTHTGE KPFQCHLCGK TFRTQASLDK HNRTHTGERP FSCEFCEQRF TEKGPLLRHV
	ASRHQEGRPH FCQICGKTFK AVEQLRVHVR RHKGVRKFEC TECGYKFTRQ AHLRRHMEIH
	DRVENYNPRQ RKLRNLIIED EKMVVVALQP PAELEVGSAE VIVESLAQGG LASQLPGQRL
	CAEESFTGPG VLEPSLIITA AVPEDCDT

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/5 | Product datasheet for ABIN3076235 | 04/16/2024 | Copyright antibodies-online. All rights reserved. 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 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®):

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	 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.
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:	ZBTB48
Alternative Name:	ZBTB48 (ZBTB48 Products)
Background:	Telomere zinc finger-associated protein (TZAP) (Krueppel-related zinc finger protein 3) (hKR3
	(Zinc finger and BTB domain-containing protein 48) (Zinc finger protein 855),FUNCTION:
	Telomere-binding protein that acts as a regulator of telomere length (PubMed:28500257,
	PubMed:28082411). Directly binds the telomeric double-stranded 5'-TTAGGG-3' repeat
	(PubMed:28500257, PubMed:28082411). Preferentially binds to telomeres that have a low
	concentration of shelterin complex and acts as a regulator of telomere length by initiating
	telomere trimming, a process that prevents the accumulation of aberrantly long telomeres
	(PubMed:28082411). Also acts as a transcription regulator that binds to promoter regions
	(PubMed:7969177, PubMed:24382891, PubMed:28500257). Regulates expression of a small
	subset of genes, including MTFP1 (PubMed:28500257). Regulates expression the J and/or S
	elements in MHC II promoter (PubMed:7969177). Acts as a negative regulator of cell
	proliferation by specifically activating expression of ARF, a tumor suppressor isoform of
	CDKN2A (PubMed:24382891). {ECO:0000269 PubMed:24382891,
	ECO:0000269 PubMed:28082411, ECO:0000269 PubMed:28500257,
	ECO:0000269 PubMed:7969177}.
Molecular Weight:	77.1 kDa
UniProt:	P10074
Application Details	

as well. As the protein has not been tested for functional studies yet we cannot offer a

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Application Details	
	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:	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)



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

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