Datasheet for ABIN3096456

ZBTB4 Protein (AA 1-1013) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	ZBTB4
Protein Characteristics:	AA 1-1013
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZBTB4 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MPPPAEVTDP SHAPAVLRQL NEQRLRGLFC DVTLIAGDTK FPAHRSVLAA SSPFFREALL TSAPLPLPPA TGGAAPNPAT TTAASSSSSS SSSSSSSSSS ASSSSSSSSS SPPPASPPAS SPPRVLELPG VPAAAFSDVL NFIYSARLAL PGGGGDGAAV AEIGALGRRL GISRLQGLGE GGDAWVPPTP APMATSQPEE DSFGPGPRPA GEWEGDRAEA QAPDLQCSLP RRPLPCPQCG KSFIHPKRLQ THEAQCRRGA STRGSTGLGA GGAGPGGPAG VDASALPPPV GFRGGPEHVV KVVGGHVLYV CAACERSYVT LSSLKRHSNV HSWRRKYPCR YCEKVFALAE YRTKHEVWHT GERRYQCIFC WETFVTYYNL KTHQRAFHGI SPGLLASEKT PNGGYKPKLN TLKLYRLLPM RAAKRPYKTY SQGAPEAPLS PTLNTPAPVA MPASPPPGPP PAPEPGPPPS VITFAHPAPS VIVHGGSSSG GGGSGTASTG GSQAASVITY TAPPRPPKKR EYPPPPPEPA ATPTSPATAV SPATAAGPAM ATTTEEAKGR NPRAGRTLTY TAKPVGGIGG GGGPPTGAGR GPSQLQAPPP LCQITVRIGE EAIVKRRISE TDLRPGELSG EEMEESEEDE EEEDEEEEEE DEEESKAGGE DQLWRPYYSY KPKRKAGAAG GASVGGSGLP RGRRPPRWRQ KLERRSWEET PAAESPAGRA

RTERRHRCGD CAQTFTTLRK LRKHQEAHGG GSHSSRAGRR PSTRFTCPHC AKVCKTAAAL SRHGQRHAAE RPGGTPTPVI AYSKGSAGTR PGDVKEEAPQ EMQVSSSSGE AGGGSTAAEE ASETASLQDP IISGGEEPPV VASGGSYVYP PVQEFPLALI GGGREPGGGR GKSGSEGPVG AGEGDRMEGI GAAKVTFYPE PYPLVYGPQL LAAYPYNFSN LAALPVALNM VLPDEKGAGA LPFLPGVFGY AVNPQAAPPA PPTPPPPTLP PPIPPKGEGE RAGVERTQKG DVG

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 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 in several dilutions and is measured against its

Product Details

	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 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:	ZBTB4
Alternative Name:	ZBTB4 (ZBTB4 Products)
Background:	Zinc finger and BTB domain-containing protein 4 (KAISO-like zinc finger protein 1) (KAISO-L1),FUNCTION: Transcriptional repressor with bimodal DNA-binding specificity. Represses transcription in a methyl-CpG-dependent manner. Binds with a higher affinity to methylated CpG dinucleotides in the consensus sequence 5'-CGCG-3' but can also bind to the non-methylated consensus sequence 5'-CTGCNA-3' also known as the consensus kaiso binding site (KBS). Can also bind specifically to a single methyl-CpG pair and can bind hemimethylated DNA but with a lower affinity compared to methylated DNA (PubMed:16354688). Plays a role in postnatal myogenesis, may be involved in the regulation of satellite cells self-renewal (By similarity). {ECO:0000250|UniProtKB:Q5F293, ECO:0000269|PubMed:16354688}.
Molecular Weight:	105.1 kDa
UniProt:	Q9P1Z0

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

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)