antibodies

Datasheet for ABIN3075912 ZBTB7A Protein (AA 1-584) (Strep Tag)



Overview

Image

Quantity:	1 mg
Target:	ZBTB7A
Protein Characteristics:	AA 1-584
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZBTB7A protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

KLFTSGAVVD QQNVYEIDFV SAEALTALMD FAYTATLTVS TANVGDILSA ARLLEIPAVS
HVCADLLDRQ ILAADAGADA GQLDLVDQID QRNLLRAKEY LEFFQSNPMN SLPPAAAAAA
ASFPWSAFGA SDDDLDATKE AVAAAVAAVA AGDCNGLDFY GPGPPAERPP TGDGDEGDSN
PGLWPERDED APTGGLFPPP VAPPAATQNG HYGRGGEEEA ASLSEAAPEP GDSPGFLSGA
AEGEDGDGPD VDGLAASTLL QQMMSSVGRA GAAAGDSDEE SRADDKGVMD YYLKYFSGAH
DGDVYPAWSQ KVEKKIRAKA FQKCPICEKV IQGAGKLPRH IRTHTGEKPY ECNICKVRFT
RQDKLKVHMR KHTGEKPYLC QQCGAAFAHN YDLKNHMRVH TGLRPYQCDS CCKTFVRSDH
LHRHLKKDGC NGVPSRRGRK PRVRGGAPDP SPGATATPGA PAQPSSPDAR RNGQEKHFKD
EDEDEDVASP DGLGRLNVAG AGGGGDSGGG PGAATDGNFT AGLA
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

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	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 fo 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.

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	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:	ZBTB7A
Alternative Name:	ZBTB7A (ZBTB7A Products)
Background:	Zinc finger and BTB domain-containing protein 7A (Factor binding IST protein 1) (FBI-1) (Facto
	that binds to inducer of short transcripts protein 1) (HIV-1 1st-binding protein 1)
	(Leukemia/lymphoma-related factor) (POZ and Krueppel erythroid myeloid ontogenic factor)
	(POK erythroid myeloid ontogenic factor) (Pokemon) (Pokemon 1) (TTF-I-interacting peptide
	21) (TIP21) (Zinc finger protein 857A),FUNCTION: Transcription factor that represses the
	transcription of a wide range of genes involved in cell proliferation and differentiation
	(PubMed:14701838, PubMed:17595526, PubMed:20812024, PubMed:25514493,
	PubMed:26455326, PubMed:26816381). Directly and specifically binds to the consensus
	sequence 5'-[GA][CA]GACCCCCCC-3' and represses transcription both by regulating the
	organization of chromatin and through the direct recruitment of transcription factors to gene
	regulatory regions (PubMed:12004059, PubMed:17595526, PubMed:20812024,
	PubMed:25514493, PubMed:26816381). Negatively regulates SMAD4 transcriptional activity in
	the TGF-beta signaling pathway through these two mechanisms (PubMed:25514493). That is,
	recruits the chromatin regulator HDAC1 to the SMAD4-DNA complex and in parallel prevents
	the recruitment of the transcriptional activators CREBBP and EP300 (PubMed:25514493).
	Collaborates with transcription factors like RELA to modify the accessibility of gene
	transcription regulatory regions to secondary transcription factors (By similarity). Also directly
	interacts with transcription factors like SP1 to prevent their binding to DNA
	(PubMed:12004059). Functions as an androgen receptor/AR transcriptional corepressor by
	recruiting NCOR1 and NCOR2 to the androgen response elements/ARE on target genes
	(PubMed:20812024). Thereby, negatively regulates androgen receptor signaling and androgen
	induced cell proliferation (PubMed:20812024). Involved in the switch between fetal and adult
	globin expression during erythroid cells maturation (PubMed:26816381). Through its
	interaction with the NuRD complex regulates chromatin at the fetal globin genes to repress

their transcription (PubMed:26816381). Specifically represses the transcription of the tumor
suppressor ARF isoform from the CDKN2A gene (By similarity). Efficiently abrogates E2F1-
dependent CDKN2A transactivation (By similarity). Regulates chondrogenesis through the
transcriptional repression of specific genes via a mechanism that also requires histone
deacetylation (By similarity). Regulates cell proliferation through the transcriptional regulation
of genes involved in glycolysis (PubMed:26455326). Involved in adipogenesis through the
regulation of genes involved in adipocyte differentiation (PubMed:14701838). Plays a key role in
the differentiation of lymphoid progenitors into B and T lineages (By similarity). Promotes
differentiation towards the B lineage by inhibiting the T-cell instructive Notch signaling pathway
through the specific transcriptional repression of Notch downstream target genes (By
similarity). Also regulates osteoclast differentiation (By similarity). May also play a role,
independently of its transcriptional activity, in double-strand break repair via classical non-
homologous end joining/cNHEJ (By similarity). Recruited to double-strand break sites on
damage DNA, interacts with the DNA-dependent protein kinase complex and directly regulates
its stability and activity in DNA repair (By similarity). May also modulate the splicing activity of
KHDRBS1 toward BCL2L1 in a mechanism which is histone deacetylase-dependent and thereby
negatively regulates the pro-apoptotic effect of KHDRBS1 (PubMed:24514149).
{ECO:0000250 UniProtKB:088939, ECO:0000250 UniProtKB:Q9QZ48,
EC0:0000269 PubMed:12004059, EC0:0000269 PubMed:14701838,
EC0:0000269 PubMed:17595526, EC0:0000269 PubMed:20812024,
EC0:0000269 PubMed:24514149, EC0:0000269 PubMed:25514493,
EC0:0000269 PubMed:26455326, EC0:0000269 PubMed:26816381}.

Molecular Weight: 61.4 kDa

UniProt:

095365

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

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Application Details	
	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

Expiry Date: Unlimited (if stored properly)

Store at -80°C.

Images

Storage Comment:



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

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