

Datasheet for ABIN3096514 ZBTB7B Protein (AA 1-539) (Strep Tag)



Overview

Quantity:	250 µg
Target:	ZBTB7B
Protein Characteristics:	AA 1-539
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZBTB7B protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MGSPEDDLIG IPFPDHSSEL LSCLNEQRQL GHLCDLTIRT QGLEYRTHRA VLAACSHYFK
	KLFTEGGGGA VMGAGGSGTA TGGAGAGVCE LDFVGPEALG ALLEFAYTAT LTTSSANMPA
	VLQAARLLEI PCVIAACMEI LQGSGLEAPS PDEDDCERAR QYLEAFATAT ASGVPNGEDS
	PPQVPLPPPP PPPPRPVARR SRKPRKAFLQ TKGARANHLV PEVPTVPAHP LTYEEEEVAG
	RVGSSGGSGP GDSYSPPTGT ASPPEGPQSY EPYEGEEEEE ELVYPPAYGL AQGGGPPLSP
	EELGSDEDAI DPDLMAYLSS LHQDNLAPGL DSQDKLVRKR RSQMPQECPV CHKIIHGAGK
	LPRHMRTHTG EKPFACEVCG VRFTRNDKLK IHMRKHTGER PYSCPHCPAR FLHSYDLKNH
	MHLHTGDRPY ECHLCHKAFA KEDHLQRHLK GQNCLEVRTR RRRKDDAPPH YPPPSTAAAS
	PAGLDLSNGH LDTFRLSLAR FWEQSAPTGP PVSTPGPPDD DEEEGAPTTP QAEGAMESS
	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 in one-step affinity chromatography 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 try to ensure that you receive soluble 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 against its specific reference buffer. We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.
Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

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Target:	ZBTB7B
Alternative Name:	ZBTB7B (ZBTB7B Products)
Background:	Zinc finger and BTB domain-containing protein 7B (Krueppel-related zinc finger protein cKrox)
	(hcKrox) (T-helper-inducing POZ/Krueppel-like factor) (Zinc finger and BTB domain-containing
	protein 15) (Zinc finger protein 67 homolog) (Zfp-67) (Zinc finger protein 857B) (Zinc finger
	protein Th-POK),FUNCTION: Transcription regulator that acts as a key regulator of lineage
	commitment of immature T-cell precursors. Exerts distinct biological functions in the
	mammary epithelial cells and T cells in a tissue-specific manner. Necessary and sufficient for
	commitment of CD4 lineage, while its absence causes CD8 commitment. Development of
	immature T-cell precursors (thymocytes) to either the CD4 helper or CD8 killer T-cell lineages
	correlates precisely with their T-cell receptor specificity for major histocompatibility complex
	class II or class I molecules, respectively. Cross-antagonism between ZBTB7B and CBF
	complexes are determinative to CD4 versus CD8 cell fate decision. Suppresses RUNX3
	expression and imposes CD4+ lineage fate by inducing the SOCS suppressors of cytokine
	signaling. induces, as a transcriptional activator, SOCS genes expression which represses
	RUNX3 expression and promotes the CD4+ lineage fate. During CD4 lineage commitment,
	associates with multiple sites at the CD8 locus, acting as a negative regulator of the CD8
	promoter and enhancers by epigenetic silencing through the recruitment of class II histone
	deacetylases, such as HDAC4 and HDAC5, to these loci. Regulates the development of IL17-
	producing CD1d-restricted naural killer (NK) T cells. Also functions as an important metabolic
	regulator in the lactating mammary glands. Critical feed-forward regulator of insulin signaling in
	mammary gland lactation, directly regulates expression of insulin receptor substrate-1 (IRS-1)
	and insulin-induced Akt-mTOR-SREBP signaling (By similarity). Transcriptional repressor of the
	collagen COL1A1 and COL1A2 genes. May also function as a repressor of fibronectin and
	possibly other extracellular matrix genes (PubMed:9370309). Potent driver of brown fat
	development, thermogenesis and cold-induced beige fat formation. Recruits the brown fat
	IncRNA 1 (BInc1):HNRNPU ribonucleoprotein complex to activate thermogenic gene expression
	in brown and beige adipocytes (By similarity). {ECO:0000250 UniProtKB:Q64321,
	EC0:0000269 PubMed:9370309}.
Molecular Weight:	58.0 kDa
UniProt:	015156

Application Details

Application Notes:

In addition to the applications listed above we expect the protein to work for functional studies

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Application Details	
	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:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months