Datasheet for ABIN3075808

ZNF683 Protein (AA 1-524) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	ZNF683
Protein Characteristics:	AA 1-524
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZNF683 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MKEESAAQLG CCHRPMALGG TGGSLSPSLD FQLFRGDQVF SACRPLPDMV DAHGPSCASW LCPLPLAPGR SALLACLQDL DLNLCTPQPA PLGTDLQGLQ EDALSMKHEP PGLQASSTDD KKFTVKYPQN KDKLGKQPER AGEGAPCPAF SSHNSSSPPP LQNRKSPSPL AFCPCPPVNS ISKELPFLLH AFYPGYPLLL PPPHLFTYGA LPSDQCPHLL MLPQDPSYPT MAMPSLLMMV NELGHPSARW ETLLPYPGAF QASGQALPSQ ARNPGAGAAP TDSPGLERGG MASPAKRVPL SSQTGTAALP YPLKKKNGKI LYECNICGKS FGQLSNLKVH LRVHSGERPF QCALCQKSFT QLAHLQKHHL VHTGERPHKC SIPWVPGRNH WKSFQAWRER EVCHKRFSSS SNLKTHLRLH SGARPFQCSV CRSRFTQHIH LKLHHRLHAP QPCGLVHTQL PLASLACLAQ WHQGALDLMA VASEKHMGYD IDEVKVSSTS QGKARAVSLS SAGTPLVMGQ DQNN **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 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

Target Details

Target:	ZNF683
Alternative Name:	ZNF683 (ZNF683 Products)
Background:	Tissue-resident T-cell transcription regulator protein ZNF683 (Homolog of Blimp-1 in T-cell) (Hobit) (Zinc finger protein 683),FUNCTION: Transcription factor that mediates a transcriptional program in various innate and adaptive immune tissue-resident lymphocyte T-cell types such as tissue-resident memory T (Trm), natural killer (trNK) and natural killer T (NKT) cells and negatively regulates gene expression of proteins that promote the egress of tissue-resident T-cell populations from non-lymphoid organs. Plays a role in the development, retention and long-term establishment of adaptive and innate tissue-resident lymphocyte T cell types in non-lymphoid organs, such as the skin and gut, but also in other nonbarrier tissues like liver and kidney, and therefore may provide immediate immunological protection against reactivating infections or viral reinfection. Also plays a role in the differentiation of both thymic and peripheral NKT cells. Negatively regulates the accumulation of interferon-gamma (IFN-gamma) in NKT cells at steady state or after antigenic stimulation. Positively regulates granzyme B production in NKT cells after innate stimulation. Associates with the transcriptional repressor PRDM1/BLIMP1 to chromatin at gene promoter regions. {ECO:0000250|UniProtKB:I7HJS4}., FUNCTION: [Isoform 1]: Lacks transcriptional repressor activity. Binds to DNA within promoter regions of the transcriptional repressor PRDM1/BLIMP1 target sites. Unable to regulate interferon-gamma (IFN-gamma) production in cytomegalovirus (CMV)-infected effector CD8(+) T-cells. {ECO:0000269|PubMed:26179882}., FUNCTION: [Isoform 2]: Transcriptional repressor that binds to DNA within promoter regions of the transcriptional repressor PRDM1/BLIMP1 target sites. Regulates interferon-gamma (IFN-gamma) production in cytomegalovirus (CMV)-infected effector CD8(+) T cells. {ECO:0000269|PubMed:26179882}.
Molecular Weight:	56.9 kDa
UniProt:	Q8IZ20

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

Application Details

	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