antibodies

Datasheet for ABIN3119122 CLEC4E Protein (AA 1-219) (Strep Tag)





Overview

Quantity:	1 mg
Target:	CLEC4E
Protein Characteristics:	AA 1-219
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CLEC4E protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB)

Product Details

Sequence:	MNSSKSSETQ CTERGCFSSQ MFLWTVAGIP ILFLSACFIT RCVVTFRIFQ TCDEKKFQLP
	ENFTELSCYN YGSGSVKNCC PLNWEYFQSS CYFFSTDTIS WALSLKNCSA MGAHLVVINS
	QEEQEFLSYK KPKMREFFIG LSDQVVEGQW QWVDGTPLTK SLSFWDVGEP NNIATLEDCA
	TMRDSSNPRQ NWNDVTCFLN YFRICEMVGI NPLNKGKSL
	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.
	 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

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• 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 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)

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Product Details

Grade:

Crystallography grade

Target Details

Target:	CLEC4E
Alternative Name:	CLEC4E (CLEC4E Products)
Background:	C-type lectin domain family 4 member E (C-type lectin superfamily member 9) (Macrophage-
	inducible C-type lectin) (MINCLE),FUNCTION: Calcium-dependent lectin that acts as a pattern
	recognition receptor (PRR) of the innate immune system: recognizes damage-associated
	molecular patterns (DAMPs) of abnormal self and pathogen-associated molecular patterns
	(PAMPs) of bacteria and fungi (PubMed:18509109, PubMed:23602766). The PAMPs notably
	include mycobacterial trehalose 6,6'-dimycolate (TDM), a cell wall glycolipid with potent
	adjuvant immunomodulatory functions (PubMed:23602766, PubMed:24101491). Interacts with
	signaling adapter Fc receptor gamma chain/FCER1G to form a functional complex in myeloid
	cells (By similarity). Binding of mycobacterial trehalose 6,6'-dimycolate (TDM) to this receptor
	complex leads to phosphorylation of the immunoreceptor tyrosine-based activation motif
	(ITAM) of FCER1G, triggering activation of SYK, CARD9 and NF-kappa-B, consequently driving
	maturation of antigen-presenting cells and shaping antigen-specific priming of T-cells toward
	effector T-helper 1 and T-helper 17 cell subtypes (By similarity). Also recognizes alpha-
	mannose residues on pathogenic fungi of the genus Malassezia and mediates macrophage
	activation (By similarity). Through recognition of DAMPs released upon nonhomeostatic cell
	death, enables immune sensing of damaged self and promotes inflammatory cell infiltration
	into the damaged tissue (By similarity). {ECO:0000250 UniProtKB:Q9R0Q8,
	EC0:0000269 PubMed:18509109, EC0:0000269 PubMed:23602766,
	ECO:0000269 PubMed:24101491}.
Molecular Weight:	25.1 kDa
UniProt:	Q9ULY5
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.
<u> </u>	

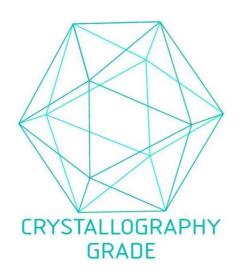
Comment:ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained fromNicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce

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	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.

Images

Expiry Date:



Unlimited (if stored properly)

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

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