antibodies

Datasheet for ABIN3104548 CLEC4D Protein (AA 1-215) (Strep Tag)





Overview

Quantity:	1 mg
Target:	CLEC4D
Protein Characteristics:	AA 1-215
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CLEC4D protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Sequence:	MGLEKPQSKL EGGMHPQLIP SVIAVVFILL LSVCFIASCL VTHHNFSRCK RGTGVHKLEH
	HAKLKCIKEK SELKSAEGST WNCCPIDWRA FQSNCYFPLT DNKTWAESER NCSGMGAHLM
	TISTEAEQNF IIQFLDRRLS YFLGLRDENA KGQWRWVDQT PFNPRRVFWH KNEPDNSQGE
	NCVVLVYNQD KWAWNDVPCN FEASRICKIP GTTLN
	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.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3104548 | 04/16/2024 | Copyright antibodies-online. All rights reserved. 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 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

Comment:

Target:	CLEC4D
Alternative Name:	CLEC4D (CLEC4D Products)
Background:	C-type lectin domain family 4 member D (C-type lectin superfamily member 8) (C-type lectin-lik
	receptor 6) (CLEC-6) (Dendritic cell-associated C-type lectin 3) (DC-associated C-type lectin 3)
	(Dectin-3) (CD antigen CD368),FUNCTION: Calcium-dependent lectin that acts as a pattern
	recognition receptor (PRR) of the innate immune system: recognizes damage-associated
	molecular patterns (DAMPs) of pathogen-associated molecular patterns (PAMPs) of bacteria
	and fungi (PubMed:23602766, PubMed:23911656). The PAMPs include alpha-mannans on
	C.albicans hypheas and mycobacterial trehalose 6,6'-dimycolate (TDM) (PubMed:23602766,
	PubMed:23911656). Interacts with signaling adapter Fc receptor gamma chain/FCER1G, likely
	via CLEC4E, to form a functional complex in myeloid cells (By similarity). Binding of
	mycobacterial TDM or C.albicans alpha-mannans 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 (PubMed:23602766, PubMed:23911656). The
	heterodimer formed with CLEC6A is active against fungal infection (PubMed:23911656).
	Functions as an endocytic receptor (PubMed:14971047). May be involved in antigen uptake at
	the site of infection, either for clearance of the antigen, or for processing and further
	presentation to T-cells (PubMed:14971047). {ECO:0000250 UniProtKB:Q69FH1,
	EC0:0000269 PubMed:14971047, EC0:0000269 PubMed:23602766,
	EC0:0000269 PubMed:23911656}.
Molecular Weight:	24.7 kDa
UniProt:	Q8WXI8
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
	quarantee though

guarantee though.

ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from

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Application Details

D:	
	needed is the DNA that codes for the desired protein!
	something that functions like a cell, but without the constraints of a living system - all that's
	components needed for protein production (amino acids, cofactors, etc.) are added to produce
	mitochondria to drive the reaction. During our lysate completion steps, the additional
	protein production are removed, leaving only the protein production machinery and the
	During lysate production, the cell wall and other cellular components that are not required for
	modifications.
	even the most difficult-to-express proteins, including those that require post-translational
	Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce

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)

Images

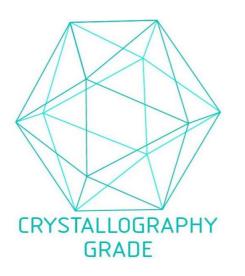


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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