antibodies.com

Datasheet for ABIN3118507 PNPLA3 Protein (AA 1-481) (Strep Tag)



Overview

Image

Quantity:	1 mg
Target:	PNPLA3
Protein Characteristics:	AA 1-481
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PNPLA3 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

	have a special request, please contact us.
	system, a different complexity of the protein could make another tag necessary. In case you
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression
	PEQDWPCWTP CSPKGCPAET KAEATPRSIL RSSLNFFLGN KVPAGAEGLS TFPSFSLEKS L
	PVESAIAIVQ RLVTWLPDMP DDVLWLQWVT SQVFTRVLMC LLPASRSQMP VSSQQASPCT
	LLDHLRLSIL PWDESILDTL SPRLATALSE EMKDKGGYMS KICNLLPIRI MSYVMLPCTL
	GYLDAFRFLE EKGICNRPQP GLKSSSEGMD PEVAMPSWAN MSLDSSPESA ALAVRLEGDE
	TITVSPFYGE YDICPKVKST NFLHVDITKL SLRLCTGNLY LLSRAFVPPD LKVLGEICLR
	VSDGENVLVS DFRSKDEVVD ALVCSCFIPF YSGLIPPSFR GVRYVDGGVS DNVPFIDAKT
	PLEQTLQVLS DLVRKARSRN IGIFHPSFNL SKFLRQGLCK CLPANVHQLI SGKIGISLTR
Sequence:	MYDAERGWSL SFAGCGFLGF YHVGATRCLS EHAPHLLRDA RMLFGASAGA LHCVGVLSGI

Characteristics:

Key Benefits:

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 ABIN3118507 | 04/16/2024 | Copyright antibodies-online. All rights reserved.

- · 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 posttranslational 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.
- 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.

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 2/4 | Product datasheet for ABIN3118507 | 04/16/2024 | Copyright antibodies-online. All rights reserved.

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:	PNPLA3
Alternative Name:	PNPLA3 (PNPLA3 Products)
Background:	1-acylglycerol-3-phosphate O-acyltransferase PNPLA3 (EC 2.3.1.51) (Acylglycerol transacylase)
	(Adiponutrin) (ADPN) (Calcium-independent phospholipase A2-epsilon) (iPLA2-epsilon) (EC
	3.1.1.4) (Lysophosphatidic acid acyltransferase) (Patatin-like phospholipase domain-containing
	protein 3) (EC 3.1.1.3),FUNCTION: Specifically catalyzes coenzyme A (CoA)-dependent
	acylation of 1-acyl-sn-glycerol 3-phosphate (2-lysophosphatidic acid/LPA) to generate
	phosphatidic acid (PA), an important metabolic intermediate and precursor for both
	triglycerides and glycerophospholipids. Does not esterify other lysophospholipids. Acyl donors
	are long chain (at least C16) fatty acyl-CoAs: arachidonoyl-CoA, linoleoyl-CoA, oleoyl-CoA and a
	a lesser extent palmitoyl-CoA (PubMed:22560221). Additionally possesses low triacylglycerol
	lipase and CoA-independent acylglycerol transacylase activities and thus may play a role in
	acyl-chain remodeling of triglycerides (PubMed:15364929, PubMed:20034933,
	PubMed:22560221). In vitro may express hydrolytic activity against glycerolipids triacylglycerol
	diacylglycerol and monoacylglycerol, with a strong preference for oleic acid as the acyl moiety
	(PubMed:21878620). However, the triacylglycerol hydrolase activity is controversial and may be
	very low (PubMed:22560221). Possesses phospholipase A2 activity (PubMed:15364929).
	{ECO:0000269 PubMed:15364929, ECO:0000269 PubMed:20034933,
	EC0:0000269 PubMed:21878620, EC0:0000269 PubMed:22560221}.
Molecular Weight:	52.9 kDa
UniProt:	Q9NST1
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

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 3/4 | Product datasheet for ABIN3118507 | 04/16/2024 | Copyright antibodies-online. All rights reserved.

Application Details

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

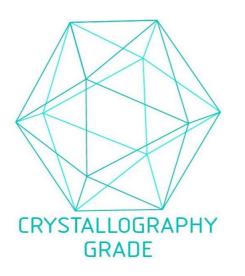


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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 4/4 | Product datasheet for ABIN3118507 | 04/16/2024 | Copyright antibodies-online. All rights reserved.