# antibodies .- online.com





## ACPL2 Protein (AA 1-480) (Strep Tag)



#### Overview

Quantity:	1 mg
Target:	ACPL2
Protein Characteristics:	AA 1-480
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ACPL2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

#### **Product Details**

Sequence:

MLFRNRFLLL LALAALLAFV SLSLQFFHLI PVSTPKNGMS SKSRKRIMPD PVTEPPVTDP

VYEALLYCNI PSVAERSMEG HAPHHFKLVS VHVFIRHGDR YPLYVIPKTK RPEIDCTLVA

NRKPYHPKLE AFISHMSKGS GASFESPLNS LPLYPNHPLC EMGELTQTGV VQHLQNGQLL

RDIYLKKHKL LPNDWSADQL YLETTGKSRT LQSGLALLYG FLPDFDWKKI YFRHQPSALF

CSGSCYCPVR NQYLEKEQRR QYLLRLKNSQ LEKTYGEMAK IVDVPTKQLR AANPIDSMLC

HFCHNVSFPC TRNGCVDMEH FKVIKTHQIE DERERREKKL YFGYSLLGAH PILNQTIGRM

QRATEGRKEE LFALYSAHDV TLSPVLSALG LSEARFPRFA ARLIFELWQD REKPSEHSVR

ILYNGVDVTF HTSFCQDHHK RSPKPMCPLE NLVRFVKRDM FVALGGSGTN YYDACHREGF

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.
- 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.

# **Product Details** >80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. Purity: Endotoxin Level: Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg) Grade: Crystallography grade **Target Details** ACPL2 Target: Alternative Name: PXYLP1 (ACPL2 Products) Background: 2-phosphoxylose phosphatase 1 (EC 3.1.3.-) (Acid phosphatase-like protein 2) (Xylosyl phosphatase) (epididymis luminal protein 124), FUNCTION: Responsible for the 2-0dephosphorylation of xylose in the glycosaminoglycan-protein linkage region of proteoglycans thereby regulating the amount of mature glycosaminoglycan (GAG) chains. Sulfated glycosaminoglycans (GAGs), including heparan sulfate and chondroitin sulfate, are synthesized on the so-called common GAG-protein linkage region (GlcUAbeta1-3Galbeta1-3Galbeta1-4Xylbeta1-O-Ser) of core proteins, which is formed by the stepwise addition of monosaccharide residues by the respective specific glycosyltransferases. Xylose 2-0-dephosphorylation during completion of linkage region formation is a prerequisite for the initiation and efficient elongation of the repeating disaccharide region of GAG chains. {ECO:0000269|PubMed:24425863}. Molecular Weight: 55.2 kDa UniProt: **08TE99 Application Details** In addition to the applications listed above we expect the protein to work for functional studies Application Notes: as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

# 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 ABIN3116878 | 04/30/2024 | Copyright antibodies-online. All rights reserved.

modifications.

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

even the most difficult-to-express proteins, including those that require post-translational

protein production are removed, leaving only the protein production machinery and the

mitochondria to drive the reaction. During our lysate completion steps, the additional

Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce

During lysate production, the cell wall and other cellular components that are not required for

Comment:

### **Application Details**

	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.
Expiry Date:	Unlimited (if stored properly)