

Datasheet for ABIN3080626

## ACBD3 Protein (AA 1-528) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	ACBD3 (Acbd3)
Protein Characteristics:	AA 1-528
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ACBD3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AlICE®
Sequence:	<p>MAAVLNAERL EVSVDGLTLS PDPEERPGAE GAPLLPPPLP PPSPPGSGRG PGASGEQPEP          GEAAAGGAAE EARRLEQRWG FGLEELYGLA LRFFKEKD GK AFHPTYEEKL KLVALHKQVL          MGPYNPDTCP EVGFFDVLGN DRRREWAALG NMSKEDAMVE FVKLLNRCCH LFSTYVASHK          IEKEEQEKKR KEEEEERRRE EEERERLQKE EEKRRREEEE RLRREEEEERR RIEEERLRLE          QQKQQIMAAL NSQTAVQFQQ YAAQQYPGNY EQQQILIRQL QEQHYQQYMQ QLYQVQLAQQ          QAALQKQEV VVAGSSLPTS SKVNATVPSN MMSVNGQAKT HTDSSEKELE PEAAAAEALN          GPKESLPVIA APSMWTRPQI KDFKEKIQD ADSVITVGRG EVVTVRVPTH EEGSYLWFEF          ATDNYDIGFG VYFEWTDSPN TAVSVHVSES SDDDEEEEEE IGCEEKAKKN ANKPLLDEIV          PVYRRDCHEE VYAGSHQYPG RGVYLLKFDN SYSLWRSKSV YYRVYYTR</p> <p><b>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</b></p>

### have a special request, please contact us.

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#### 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.

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#### Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

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#### Purity:

> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

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#### Grade:

custom-made

## Target Details

Target:	ACBD3 (Acbd3)
Alternative Name:	ACBD3 ( <a href="#">Acbd3 Products</a> )
Background:	<p>Golgi resident protein GCP60 (Acyl-CoA-binding domain-containing protein 3) (Golgi complex-associated protein 1) (GOCAP1) (Golgi phosphoprotein 1) (GOLPH1) (PBR- and PKA-associated protein 7) (Peripheral benzodiazepine receptor-associated protein PAP7) [Cleaved into: Golgi resident protein GCP60, N-terminally processed],FUNCTION: Involved in the maintenance of Golgi structure by interacting with giantin, affecting protein transport between the endoplasmic reticulum and Golgi (PubMed:11590181). Involved in hormone-induced steroid biosynthesis in testicular Leydig cells (By similarity). Recruits PI4KB to the Golgi apparatus membrane, enhances the enzyme activity of PI4KB activity via its membrane recruitment thereby increasing the local concentration of the substrate in the vicinity of the kinase (PubMed:27009356). {ECO:0000250 UniProtKB:Q8BMP6, ECO:0000269 PubMed:11590181, ECO:0000269 PubMed:27009356}., FUNCTION: (Microbial infection) Plays an essential role in Aichi virus RNA replication by recruiting PI4KB at the viral replication sites. {ECO:0000269 PubMed:22124328, ECO:0000269 PubMed:22258260, ECO:0000269 PubMed:27989622}.</p>
Molecular Weight:	60.6 kDa
UniProt:	<a href="#">Q9H3P7</a>

## 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:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>

Application Details

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 <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months