

Datasheet for ABIN3130715

## SH3PXD2B Protein (AA 1-908) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	SH3PXD2B
Protein Characteristics:	AA 1-908
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SH3PXD2B protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	<p>MPPRRSIVEV KVLVDVQKRRV PNKHYVYIIR VTWSSGATEA IYRRYSKFFD LQMQLDKFP</p> <p>MEGGQKDPKQ RIIPFLPGKI LFRRSHIRDV AVKRLIPIDE YCKALIQLPP YISQCDEVLQ</p> <p>FFETRPEDLN PPKEEHIGKK KSGNDPTSVD PMVLEQYVVV ADYQKQESSE ISLSVGQVVD</p> <p>IIEKNESGWW FVSTAEQGW VPATCLEGQD GVQDEFSLQP EEEKYTVIY PYTARDQDEM</p> <p>NLERGAVVEV VQKNLEGWWK IRYQGKEGWA PASYLKKNKG EPLPPKLGPS SPAHSGALDL</p> <p>DGVSRRHQNAM GREKELNNQ RDGRFEGRLV PDGDVKQRSP KMRQRPPRR DMTIPRGLNL</p> <p>PKPPIPPQVE EEEYTIAEFQ TTIPDGISFQ AGLKVEVIEK SLSGWWYIQM EDKEGWAPAT</p> <p>FIDKYKKTSS ASRPNFLAPL PHEMTQLRLG DAAATENNTG PEAVGPSRPL PEAPHGAVDS</p> <p>GMLWSKDWKG GKEAPRKASS DLSASTGYEE ISDPTQEEKP SLPPRKESII KSEEELLERE</p> <p>RQKMEPLRGS SPKPPGMILP MIPAKHAPLA RDSRKPEPKL DKSKFPLRND MGLECGHKVL</p> <p>AKEVKKPNLR PISRSKAELS EEKVDPTSQN LFMKSRPQVR PKPTSPKTE PAQSEDHVDI</p>

YNLRSLRPA KSQEKALLDG ESHHAAGSHD TALSRSLPG EPGHGQDRS GRQDGLSPKE  
TPCRAPPRPA KTTDPGPKNV PVPVQEATLQ QRPVVPRRP PPPKKTSSSP LSCRPLPEVR  
GAQREESRVA PAAGRALLVP PKAKPFLSNS SVGQDDMRGK GGLGPRVTGK VGETREKAAS  
FLNADGPKDS LYVAVANFEG DEDTSSFQEG TVFEVREKNS SGWWFCQVLS GAPSWEGWIP  
SNYLRKKP

**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.**

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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.

## Product Details

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Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

## Target Details

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Target:	SH3PXD2B
Alternative Name:	Sh3pxd2b ( <a href="#">SH3PXD2B Products</a> )
Background:	SH3 and PX domain-containing protein 2B (Factor for adipocyte differentiation 49) (Tyrosine kinase substrate with four SH3 domains),FUNCTION: Adapter protein involved in invadopodia and podosome formation and extracellular matrix degradation. Binds matrix metalloproteinases (ADAMs), NADPH oxidases (NOXs) and phosphoinositides. Acts as an organizer protein that allows NOX1- or NOX3-dependent reactive oxygen species (ROS) generation and ROS localization. Plays a role in mitotic clonal expansion during the immediate early stage of adipocyte differentiation. {ECO:0000269 PubMed:18959745, ECO:0000269 PubMed:19144821, ECO:0000269 PubMed:19755710}.
Molecular Weight:	101.5 kDa
UniProt:	<a href="#">A2AAY5</a>
Pathways:	<a href="#">Positive Regulation of fat Cell Differentiation</a>

## Application Details

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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</p>

Application Details

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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