

Datasheet for ABIN3095661
SH3PXD2B Protein (AA 1-911) (Strep Tag)



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Overview

Quantity:	1 mg
Target:	SH3PXD2B
Protein Characteristics:	AA 1-911
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SH3PXD2B protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Sequence:	MPPRRSIVEV KVLDVQKRRV PNKHVYVYIR VTWSSGSTEA IYRRYSKFFD LQMQLDKFP MEGGQKDPKQ RIIPFLPGKI LFRRSHIRDV AVKRLIPIDE YCKALIQ LPP YISQCDEV LQ FFETRPEDLN PPKEEHIGKK KSGGDQTSVD PMVLEQYVVV ANYQKQESSE ISLSVGQVVD IIEKNESGWW FVSTAEQGW VPATCLEGQD GVQDEFSLQP EEEKYTVIY PYTARDQDEM NLERGAVVEV IQKNLEGWWK IRYQGKEGWA PASYLKKNSG EPLPPKPGPG SPSHPGALDL DGVSRQQNAV GREKELLSSQ RDGRFEGRPV PDGDAKQRSP KMRQRPPRR DMTIPRGLNL PKPPIPPQVE EEYYTIAEFQ TTIPDGISFQ AGLKVEVIEK NLSGWWYIQI EDKEGWAPAT FIDKYK KTSN ASRPNFLAPL PHEVTQLRLG EAAALENNTG SEATGPSRPL PDAPHGVMD S GLPWSKDWKG SKDVLRKASS DMSASAGYEE ISDPDMEEKP SLPPRKESII KSEGELLERE RERQRTEQLR GPTPKPPGVI LPMMPAKHIP PARDSRRPEP KPDKSRLFQL KNDMGLECGH KVLAKEVKKP NLRPISSKT DLPEEKPDAT PQNPFLKSRP QVRPKPAPSP KTEPPQGEDQ VDICNLRSL RPAKSQDKSL LDGEGPQAVG GQDVAFSRSF LPGEGPGRAQ DRTGKQDGLS
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PKEISCRAPP RPAKTTDPVS KSVPLQEA PQQRPVPPR RPPPPKKTSS SSRPLPEVRG
PQCEGHESRA APTPGRALLV PPKAKPFLSN SLGGQDDTRG KGSLGPWGTG KIGENREKAA
AASVPNADGL KDSLYVAVAD FEGDKDTSSF QEGTVFEVRE KNSSGWWFCQ VLSGAPSWEG
WIPSNYLRKK P

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 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.

Product Details

- 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)
Grade:	Crystallography grade

Target Details

Target:	SH3PXD2B
Alternative Name:	SH3PXD2B (SH3PXD2B Products)
Background:	SH3 and PX domain-containing protein 2B (Adapter protein HOFI) (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 (By similarity). {ECO:0000250, ECO:0000269 PubMed:12615925, ECO:0000269 PubMed:19755710, ECO:0000269 PubMed:20609497}.
Molecular Weight:	101.6 kDa
UniProt:	A1X283
Pathways:	Positive Regulation of fat Cell Differentiation

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
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Application Details

	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>
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)



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