

Datasheet for ABIN3095539

SH3PXD2A Protein (AA 1-1133) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	SH3PXD2A
Protein Characteristics:	AA 1-1133
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SH3PXD2A protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MLAYCVQDAT VVDVEKRRNP SKHYVYIINV TWSDSTSQTI YRRYSKFFDL QMQLLDKFPI</p> <p>EGGQKDPKQR IIPFLPGKIL FRRSHIRDVA VKRLKPIDEY CRALVRLPPH ISQCDEVFRF</p> <p>FEARPEDVNP PKEDYGSSKR KSVWLSSWAE SPKDVDTGAD ATAEPMILEQ YVVVSNYKKQ</p> <p>ENSELSLQAG EVVDVIEKNE SGWWFVSTSE EQGWVPATYL EAQNGTRDDS DINTSKTGEV</p> <p>SKRRKAHLRR LDRRWTLGGM VNRQHSREEK YVTVQPYTSQ SKDEIGFEKG VTVEVIRKNL</p> <p>EGWWYIRYLG KEGWAPASYL KKAADDLPTR KKNLAGPVEI IGNIMEISNL LNKKASGDKE</p> <p>TPPAEGEGHE APIAKKEISL PILCNASNGS AVGVDPDRTVS RLAQGSPAVA RIAPQRAQIS</p> <p>SPNLRTTRPPP RRESSLGFQL PKPPEPPSVE VEYYTIAEFQ SCISDGISFR GGQKAEVIDK</p> <p>NSGGWWYVQI GEKEGWAPAS YIDKRKKPNL SRRTSTLTRP KVPPPAPPSK PKEAEEGPTG</p> <p>ASESQDSPRK LKYEEPEYDI PAFGFDSEPE LSEEPVEDRA SGERRPAQPH RPSPASSLQR</p> <p>ARFKVGESSE DVALEEETIY ENEGFRPYAE DTLSARGSSG DSDSPGSSSL SLTRKNSPKS</p>

GS PKSSSLLK LKAEKNAQAE MGKNHSSASF SSSITINTTC C SSSSSSSSSS LSKTSGDLKP
RSASDAGIRG TPKVRAKKDA DANAGLTSCP RAKPSVRPKP FLNRAESQSQ EKMDISTLRR
QLRPTGQLRG GLKGSKSEDS ELPPQTASEA PSEGSRRSSS DLITLPATTP PCPTKKEWEG
PATSYMTCSA YQKVQDSEIS FPAGVEVQVL EKQESGWYV RFGELEGWAP SHYLVLDENE
QPDPSGKELD TVPAKGRQNE GKSDSLEKIE RRVQALNTVN QSKKATPPIP SKPPGGFGKT
SGTPAVKMRN GVRQVAVRPQ SVFVSPPPKD NNLSALRRN ESLTATDGLR GVRNSSFST
ARSAAAEAKG RLAERAASQG SDSPLLPAQR NSIPVSPVRP KPIEKSQFIH NNKDVYVSI
ADYEGDEETA GFQEGVSMEV LERNPNGWWY CQILDGVKPF KGWVPSNYLE KKN

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 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:

Product Details

- 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.

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

Target: SH3PXD2A

Alternative Name: SH3PXD2A ([SH3PXD2A Products](#))

Background: SH3 and PX domain-containing protein 2A (Adapter protein TKS5) (Five SH3 domain-containing protein) (SH3 multiple domains protein 1) (Tyrosine kinase substrate with five SH3 domains),FUNCTION: Adapter protein involved in invadopodia and podosome formation, extracellular matrix degradation and invasiveness of some cancer cells. 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. In association with ADAM12, mediates the neurotoxic effect of amyloid-beta peptide. {ECO:0000269|PubMed:12615925, ECO:0000269|PubMed:15710328, ECO:0000269|PubMed:15710903, ECO:0000269|PubMed:19755710, ECO:0000269|PubMed:20609497}.

Molecular Weight: 125.3 kDa

UniProt: [Q5TCZ1](#)

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 *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

Application Details

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!

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