

Datasheet for ABIN755549  
**SH3PXD2A Protein (AA 1-1133) (His tag)**



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## Overview

Quantity:	1 mg
Target:	SH3PXD2A
Protein Characteristics:	AA 1-1133
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SH3PXD2A protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant SH3PXD2A Protein expressed in mammalian cells.
Sequence:	MLAYCVQDAT VVDVEKRRNP SKHYVYIINV TWS DSTSQTI YRRYSKFFDL QMQLLDKFPI EGGQKDPKQR IIPFLPGKIL FRRSHIRDVA VKRLKPIDEY CRALVRLPPH ISQCDEVFRF FEARPELVNP PKEDYGSSKR KSVWLSSWAE SPKKDVTGAD ATAEPMILEQ YVVVSNYKKQ ENSELSLQAG EVVDVIEKNE SGWWFVSTSE EQGWVPATYL EAQNGTRDDS DINTSKTGEV SKRRKAHLRR LDRRWTLGGM VNRQHSREEK YVTVQPYTSQ SKDEIGFEKG VTVEVIRKNL EGWWYIRYLG KEGWAPASYL KKAKDDLPTK KKNLAGPVEI IGNIMEISNL LNKKASGDKE TPPAEGEGHE APIAKKEISL PILCNASNGS AVGVDPRTVS RLAQGSPAVA RIAPQRAQIS SPNLRTRPPP RRESSLGFQL PKPPEPPSVE VEYTTIAEFQ SCISDGISFR GGQKAEVIDK NSGGWYVYVQI GEKEGWAPAS YIDKRKKPNL SRRTSTLTRP KVPPPAPPSK PKEAEEGPTG ASESQDSPRK LKYEPEYDI PAFGFDSEPE LSEEPVEDRA SGERRPAQPH RPSPASSLQR ARFKVGESSE DVALEEETIY ENEGFRPYAE DTLSARGSSG DSDSPGSSSL SLTRKNSPKS GSPKSSSLK LKAEKNAQAE MGKNHSSASF SSSITINTTC CSSSSSSSSSS LSKTSGDLKP

## Product Details

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RSASDAGIRG TPKVRAKKDA DANAGLTSCP RAKPSVRPKP FLNRAESQSQ EKMDISTLRR  
QLRPTGQLRG GLKGSKSEDS ELPPQTASEA PSEGSRRSSS DLITLPATTP PCPTKKEWEG  
PATSYMTCSA YQKVQDSEIS FPAGVEVQVL EKQESGWWYV RFGLEGWAP SHYLVLDENE  
QPDPGKELD TVPAKGRQNE GKSDSLEKIE RRVQALNTVN QSKKATPIP SKPPGGFGKT  
SGTPAVKMRN GVRQVAVRPQ SVFVSPPPKD>NNLSCALRRN ESLTATDGLR GVRRNSSFST  
ARSAAAEAKG RLAERAASQG SDSPLLPAQR NSIPVSPVRP KPIEKSQFIH>NNLKDVYVSI  
ADYEGDEETA GFQEGVSMEV LERNPNGWWY CQILDGVKPF KGWVPSNYLE KKN **Sequence  
without tag. The proposed Purification-Tag is based on experiences 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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Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

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Characteristics: Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

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Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

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Grade: custom-made

## Target Details

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Target: SH3PXD2A

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

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Background: SH3 and PX domain-containing protein 2A (Adapter protein TKS5) (Five SH3 domain-containing

## Target Details

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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}.

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Molecular Weight: 125.3 kDa

UniProt: [Q5TCZ1](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months