

Datasheet for ABIN3132302

SH3PXD2A Protein (AA 1-1124) (His tag)



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1 Image

Overview

Quantity:	1 mg
Target:	SH3PXD2A
Protein Characteristics:	AA 1-1124
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SH3PXD2A protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence: MLAYCVQDAT VVDVEKRRSP SKHYVYIINV TWSDESTSQT IYRRYSKFFDL QMQLLDKFPI
EGGQKDPKQR IIPFLPGKIL FRRSHIRDVA VKRLKPIDEY CRALVRLPPH ISQCDEVFRF
FEARPEDVNP PKEDYGSSKR KSVWLSSWAE SPKKDVTGAD TNAEPMILEQ YVVSNYKKQ
ENSELSLQAG EVVDVIEKNE SGWWFVSTSE EQGWVPATYL EAQNGTRDDS DINTSKTGEV
SKRRKAHLRR LDRRWTLGGM VNRQHSREEK YVTVQPYTSQ SKDEIGFEKG VTVEVIRKNL
EGWWYIRYLG KEGWAPASYL KKAKDDLPTK KKNLAGPVEI IGNIMEISNL LNKKASGDKE
APAEEGGSEA PITKKEISLP ILCNASNGSA LAIPERTTSK LAQGSPAVAR IAPQRAQISS
PNLRTRPPPR RESSLGFQLP KPPEPPSVEV EYTTIAEFQS CISDGISFRG GQKAEVIDKN
SGGWYVYVQIG EKEGWAPASY IDKRKKPNLS RRTSTLTRPK VPPPAPPSKP KEAEENPVGA
CESQGSPLKV KYEEPEYDVP AFGFDSEPEM NEEPSGDRGS GDKHPAQPRR ISPASSLQRA
HFKVGESSED VALEEETIYE NEGFRPYTED TLSARGSSGD SDSPGSSSL S LAVKNSPKSD
SPKSSSLLKL KAEKNAQEL GKNQSNISFS SSVTISTTCS SSSSSSSLSK NNGDLKPRSA

SDAGIRDTPK VGTKKDPDVK AGLASCARAK PSVRPKPVLN RAESQSQEKM DISSLRRQLR
PTGQLRGGLK GSRSESELP PQMASEGSRR GSADIPLTA TTPPCVPKKE WEGQGATYVT
CSAYQKVQDS EISFPEGAEV HVLEKAESGW WYVRFGELEG WAPSHYLVAE ENQQPDTASK
EGDTGKSSQN EGKSDSLEKI EKRQALNTV NQSKRATPPI PSKPPGGFGK TSGTVAVKMR
NGVRQVAVRP QSVFVSPPPK DNNLSCALRR NESLTATDSL RGVRRNSSFS TARSAAAEAK
GRLAERAASQ GSESPLLPTQ RKGIPVSPVR PKPIEKSQFI HNNLKDVIYIS IADYEGDEET
AGFQEGVSME VLEKNPNGWW YCQILDEVKP FKGWVPSNYL EKKN

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Sh3pxd2a Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

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.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
2. Protein containing fractions of the best purification are subjected to second purification step

Product Details

through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility: 0.22 µm filtered

Endotoxin Level: Protein is endotoxin free.

Grade: Crystallography grade

Target Details

Target: SH3PXD2A

Alternative Name: Sh3pxd2a ([SH3PXD2A Products](#))

Background: 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 beta-amyloid peptide (By similarity). {ECO:0000250, ECO:0000269|PubMed:18417249, ECO:0000269|PubMed:19755709}.

Molecular Weight: 125.2 kDa Including tag.

UniProt: [O89032](#)

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: Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

Handling

Format: Liquid

Handling

Buffer:	100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)

Images



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