Datasheet for ABIN3137504

ALIX Protein (AA 2-869) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	ALIX (PDCD6IP)
Protein Characteristics:	AA 2-869
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ALIX protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	ASFIWVQLKK TSEVDLAKPL VKFIQQTYPS GGEEQAQYCR AAEELSKLRR SALGRPLDKH EGALETLLRY YDQICSIEPK FPFSENQICL TFTWKDAFDK GSLFGGSVKL ALASLGYEKS CVLFNCAALA SQIAAEQNLD NDEGLKTAAK QYQFASGAFL HIKDTVLSAL SREPTVDISP DTVGTLSLIM LAQAQEVFFL KATRDKMKDA IIAKLANQAA DYFGDAFKQC QYKDTLPKEV FPTLAAKQCI MQANAEYHQS ILAKQQKKFG EEIARLQHAA ELIKNVASRY DEYVNVKDFS DKINRALTAA KKDNDFIYHD RVPDLKDLDP IGKATLVKPT PVNVPVSQKF TDLFEKMVPV SVQQSLAVFS QRKADLVNRS IAQMREATTL ANGVLASLNL PAAIEDVSGD TVPQSILTKS TSVVEQGGIQ TVDQLIKELP ELLQRNREIL EESLRLLDEE EATDNDLRAK FKDRWQRTPS NDLYKPLRAE GAKFRAVLDK AVQADGQVKE RYQSHRDTIA LLCKPEPELN AAIPSANPAK TMQGSEVVSV LKSLLSNLDE IKKERESLEN DLKSVNFDMT SKFLTALAQD GVINEEALSV TELDRIYGGL TSKVQESLKK QEGLLKNIQV SHQEFSKMKQ SNNEANLREE VLKNLATAYD NFVELVANLK EGTKFYNELT EILVRFQNKC SDIVFARKTE RDELLKDLQQ SIAREPSAPS

	IPPPAYQSSP AAGHAAAPPT PAPRTMPPAK PQPPARPPPP VLPANRVPPA SAAAAPAGVG TASAAPPQTP GSAPPPQAQG PPYPTYPGYP GYCQMPMPMG YNPYAYGQYN MPYPPVYHQS PGQAPYPGPQ QPTYPFPQPP QQSYYPQQ **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 Pdcd6ip 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 receival 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 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

Product Details

Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	ALIX (PDCD6IP)
Alternative Name:	Pdcd6ip (PDCD6IP Products)
Background:	Class E VPS protein involved in concentration and sorting of cargo proteins of the multivesicular body (MVB) for incorporation into intralumenal vesicles (ILVs) that are generated by invagination and scission from the limiting membrane of the endosome. Binds to the phospholipid lysobisphosphatidic acid (LBPA) which is abundant in MVBs internal membranes. The MVB pathway appears to require the sequential function of ESCRT-0, -I,-II and -III complexes. The ESCRT machinery also functions in topologically equivalent membrane fission events, such as the terminal stages of cytokinesis. Appears to be an adapter for a subset of ESCRT-III proteins, such as CHMP4, to function at distinct membranes. Required for completion of cytokinesis. May play a role in the regulation of both apoptosis and cell proliferation. Regulates exosome biogenesis in concert with SDC1/4 and SDCBP (By similarity). {ECO:0000250|UniProtKB:Q8WUM4}.
Molecular Weight:	96.8 kDa Including tag.
UniProt:	Q9WU78
Pathways:	p53 Signaling, EGFR Signaling Pathway, Sensory Perception of Sound, Cellular Response to Molecule of Bacterial Origin, Tube Formation

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 gurantee 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
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

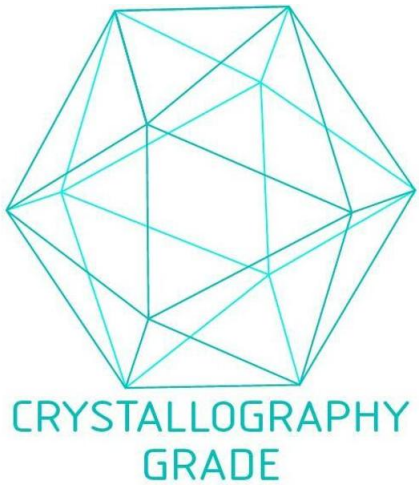

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process