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Datasheet for ABIN3094449 ALIX Protein (AA 2-868) (His tag)

Image



Overview

Quantity:	1 mg
Target:	ALIX (PDCD6IP)
Protein Characteristics:	AA 2-868
Origin:	Human
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:	ATFISVQLKK TSEVDLAKPL VKFIQQTYPS GGEEQAQYCR AAEELSKLRR AAVGRPLDKH
	EGALETLLRY YDQICSIEPK FPFSENQICL TFTWKDAFDK GSLFGGSVKL ALASLGYEKS
	CVLFNCAALA SQIAAEQNLD NDEGLKIAAK HYQFASGAFL HIKETVLSAL SREPTVDISP
	DTVGTLSLIM LAQAQEVFFL KATRDKMKDA IIAKLANQAA DYFGDAFKQC QYKDTLPKEV
	FPVLAAKHCI MQANAEYHQS ILAKQQKKFG EEIARLQHAA ELIKTVASRY DEYVNVKDFS
	DKINRALAAA KKDNDFIYHD RVPDLKDLDP IGKATLVKST PVNVPISQKF TDLFEKMVPV
	SVQQSLAAYN QRKADLVNRS IAQMREATTL ANGVLASLNL PAAIEDVSGD TVPQSILTKS
	RSVIEQGGIQ TVDQLIKELP ELLQRNREIL DESLRLLDEE EATDNDLRAK FKERWQRTPS
	NELYKPLRAE GTNFRTVLDK AVQADGQVKE CYQSHRDTIV LLCKPEPELN AAIPSANPAK
	TMQGSEVVNV LKSLLSNLDE VKKEREGLEN DLKSVNFDMT SKFLTALAQD GVINEEALSV
	TELDRVYGGL TTKVQESLKK QEGLLKNIQV SHQEFSKMKQ SNNEANLREE VLKNLATAYD
	NFVELVANLK EGTKFYNELT EILVRFQNKC SDIVFARKTE RDELLKDLQQ SIAREPSAPS

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Sterility:	0.22 µm filtered
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
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.
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	specific reference buffer.
	The protein's absorbance will be measured in several dilutions and is measured against its
	The concentration of our recombinant proteins is measured using the absorbance at 280nm.
	protein experts will do everything to make sure that you receive the protein you ordered.
	folded protein. With no financial risk on your end you can rest assured that our experienced
	When you order this made-to-order protein you will only pay upon receival of the correctly
	experiments or purification optimization).
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	(other companies might charge you for any performed steps in the expression process for
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	cannot be expressed or purified.
	made proteins from other companies is that there is no financial obligation in case the protein
	The big advantage of ordering our made-to-order proteins in comparison to ordering custom
	experts in the lab will ensure that you receive a correctly folded protein.
	This protein is a made to order protein and will be made for the first time for your order. Our
ondracteristics.	 Human 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).
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts.
	special request, please contact us.
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	GQAPYPGPQQ PSYPFPQPPQ QSYYPQQ
	AAPAPSQTPG SAPPPQAQGP PYPTYPGYPG YCQMPMPMGY NPYAYGQYNM PYPPVYHQSP
	IPTPAYQSSP AGGHAPTPPT PAPRTMPPTK PQPPARPPPP VLPANRAPSA TAPSPVGAGT

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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 and enveloped virus budding (HIV-1 and
	other lentiviruses). 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. Involved in
	HIV-1 virus budding. Can replace TSG101 it its role of supporting HIV-1 release, this function
	implies the interaction with CHMP4B. May play a role in the regulation of both apoptosis and
	cell proliferation. Regulates exosome biogenesis in concert with SDC1/4 and SDCBP
	(PubMed:22660413). {ECO:0000269 PubMed:14505569, ECO:0000269 PubMed:14505570,
	ECO:0000269 PubMed:14739459, ECO:0000269 PubMed:17428861,
	ECO:0000269 PubMed:17556548, ECO:0000269 PubMed:17853893,
	ECO:0000269 PubMed:22660413}.
Molecular Weight:	96.8 kDa Including tag.
UniProt:	Q8WUM4
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:	In cases in which it is highly likely that the recombinant protein with the default tag will be

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Application Details	
	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

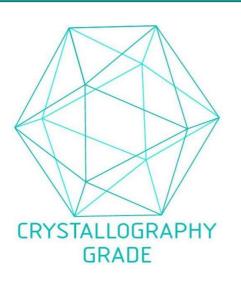


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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