

Datasheet for ABIN3116026
ATG9A Protein (AA 2-839) (rho-1D4 tag)



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Overview

Quantity:	1 mg
Target:	ATG9A
Protein Characteristics:	AA 2-839
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATG9A protein is labelled with rho-1D4 tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	AQFDTEYQRL EASYSDSPPG EEDLLVHVAE GSKSPWHHIE NDLFFSRVY NLHQKNGFTC MLIGEIFELM QFLFVVAFTT FLVSCVDYDI LFANKMVNHS LHPTPEVKVT LPDAFLPAQV CSARIQENGSLITILVIAGV FWIHRLIKFI YNICCYWEIH SFYLHALRIP MSALPYCTWQ EVQARIVQTQ KEHQICIKR ELTELDIYHR ILRFQNYMVA LVNKSLLPLR FRLPGLGEAV FFTRGLKYNF ELILFWGPGS LFLNEWSLKA EYKRGGQRLE LAQRLSNRIL WIGIANFLLC PLILIWQILY AFFSYAEVLK REPGALGARC WSLYGRCYLR HFNELEHELQ SRLNRGYKPA SKYMNCFLSP LLTLLAKNGA FFAGSILAVL IALTIYDEDV LAVEHVLTTV TLLGVTVTVC RSFIPDQHMV FCPEQLLRVI LAHIHYMPDH WQGNARSQT RDEFAQLFQY KAVFILEELL SPIVTPLILI FCLRPRAL EI DFFRNFTVE VVGVDTCSE AQMDVRQHGHPQWLSAGQTE ASVYQQAEDG KTELSLMHFA ITNPGWQPPR ESTAFGLGFLK EQVQRDGAASLAQGGLLPE NALFTSIQSL QSESEPLSLI ANVVAGSSCR GPPLPRDLQG SRHRAEVASALRSFSPLQPG QAPTGRAHST MTGSGVDART ASSGSSVWEG QLQSLVLSEY ASTEMSLHAL YMHQLHKQQA
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QAEPERHVWH RREDESGES APDEGGEGAR APQSI PRSAS YPCAAPRPGA PETTALHGGF
QRRYGGITDP GTVPRVPSHF SRLPLGGWAE DGQSASRHPE PVPEEGSEDE LPPQVHKV

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

Characteristics:	<ul style="list-style-type: none">• Made in Germany - from design to production - by highly experienced protein experts.• Human ATG9A 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). <p>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.</p> <p>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.</p> <p>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).</p> <p>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.</p> <p>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.</p> <p>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.</p>
Purification:	<p>Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:</p> <ol style="list-style-type: none">1. Membrane proteins are fractionated by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.3. 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.

Product Details

Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin-free.
Grade:	Crystallography grade

Target Details

Target:	ATG9A
Alternative Name:	ATG9A (ATG9A Products)
Background:	Involved in autophagy and cytoplasm to vacuole transport (Cvt) vesicle formation. Plays a key role in the organization of the preautophagosomal structure/phagophore assembly site (PAS), the nucleating site for formation of the sequestering vesicle. Cycles between a juxta-nuclear trans-Golgi network compartment and late endosomes. Nutrient starvation induces accumulation on autophagosomes. Starvation-dependent trafficking requires ULK1, ATG13 and SUPT20H. {ECO:0000269 PubMed:16940348}.
Molecular Weight:	95.5 kDa Including tag.
UniProt:	Q7Z3C6

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:	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

Handling

Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)