

Datasheet for ABIN3136599

ABCA5 Protein (AA 1-1642) (rho-1D4 tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	ABCA5
Protein Characteristics:	AA 1-1642
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ABCA5 protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys)

Product Details

Sequence:	MATAIRDVGW WRQTRTLLK NYLIKCR TKK SSVQEILFPL FFLFWLILVS MMHPNKKYEE VSDIELSPMD KFSLSNVILG YTPVTNITSS IMQRVSTDHL PKVIVTEEYA NEKELVAASL SKSSNFVGVV FKDTMSYELR FFPEMIPVSS IYMNSREGCS KTCDAQYWS LGFTVLQASI DAAIQLKTN VSVWSELEST KAVIMGAAV VEIDTFPRGV ILIYLVIAFS PFGYFLAIHI VAEKEKKLKE FLKIMGLHDT AFWLSWVLLY ASLIFLMSLL MAVIATASSL FPQSSSIVIF LLFFLYGLSS VFFALMLTPL FKSKKHVGWV EFFVTVVGFG VGLLIVLIES FPRSLVWLFS PLCQCAFLIG IAQVMHLEDF NEGALFSNLT EGPYPLIITI IMLALDSVFY VLLAVYLDQV IPGEFGLRRS SLYFLKPSYW SKNKRNYKEL SEGNINGNIS LNEIVEPVSS EFIGKEAIRI SGIQKSYRKK TENVEALRNL SFDIYEGQIT ALLGHSGTGK STLMNILCGL CPPSDGFASI YGHRVSEIDE MFEARKMIGI CPQSDINFVDV LTVEENLSIL ASIKGIPANN IIQEVQKVLL DLDMQAIKDN QAKKLSGGQK RKL SVGIAVL GNP KILLLLDE PTAGMDPCSR HIVWNLLKYR KANRVTVFST HFMDADILA DRKAVISQGM LKCVGSSIFL KSKWGIGYRL SMYIDRYCAT ESLSSLVRQH
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IPAAALLQQN DQQLVYSLPF KDMDKFSGLF SALDIHSNLG VISYGVSMIT LEDVFLKLEV
EAEIDQADYS VFTQQPREEE TDSKSFDEME QSLILSETK ASSVSTMSLW KQQVSTIAKF
HFLSLKRESK SVRAVLLLLL IFFAVQIMF FLHHSFKNAV VPIKLVPDLY FLKPGDKPHK
YKTSLLLQNS TDSINGLIE FFAHQNMVA MFNDSYVSA APHSAALNVV RSEKDYVFSA
VFNSTMVYCL PVMMNIISNY YLYHLNVTEA IQTWSTPFIQ EITDIVFKIE LYFQAALLGI
IVTAMPPYFA MENAENHKIK AYTQLKLSGL LPSAYWVGQA VVDIPLFFV LILMLGSLFA
FHHGLYFPA KFLAVVFCI AYVPSVILFT YIASFTFKI LNTKEFWSFI YSVTALACVA
ITETFFLQY AVTAVFHYTF CIAPIYPLL GCLISFIKS WKNMPKNENT YNPWDRLLVA
VIMPYLQCIL WIFLLQHYEK IHGGRSIRKD PFFRALSQKA KNKKFPEPPI NEDEDEDVKA
ERLKVKELMG QCCCEEKPAI MVCNLHKEYD DKKDFLHSRK TTKVATKYIS FCVKKGEILG
LLGPNAGAKS TVINTLVGDV EPTSGKIFLG DYGSHSSEDD ESIKCMGYCP QTNPLWPDLT
LQEHFEIYGA VKGMSPGDMK EVISRITKAL DLKEHLQKTV KKLPAKIKRK LCFALSMLGN
PQVTLLDEPS TGMDPRAKQH MWRAIRTAFA NKKRAALLTT HYMEEAEEAVC DRVAIMVSGQ
LRCIGTVQHL KSKFGKGYFL EIKLKDWIEN LEIDRLQREI QYIFPNASRQ ESFSSILAFK
IPKEDVQSLS QSFAKLEEK RTFAIEEYSF SQATLEQVFV ELTKEQEEED NSCGTLASTL
WWERTQEDRV VF

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 Abca5 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.

Product Details

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:	Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells: <ol style="list-style-type: none">1. Membrane proteins are fractioned 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 chromatograph. 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:	ABCA5
Alternative Name:	Abca5 (ABCA5 Products)
Background:	May play a role in the processing of autolysosomes. {ECO:0000269 PubMed:15870284}.
Molecular Weight:	187.1 kDa Including tag.
UniProt:	Q8K448

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

Application Details

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