antibodies .- online.com





ABCA5 Protein (AA 1-1642) (Strep Tag)



Image



Overview

Quantity:	1 mg
Target:	ABCA5
Protein Characteristics:	AA 1-1642
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ABCA5 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

VPNIELNPMD KFTLSNLILG YTPVTNITSS IMQKVSTDHL PDVIITEEYT NEKEMLTSSL
SKPSNFVGVV FKDSMSYELR FFPDMIPVSS IYMDSRAGCS KSCEAAQYWS SGFTVLQASI
DAAIIQLKTN VSLWKELEST KAVIMGETAV VEIDTFPRGV ILIYLVIAFS PFGYFLAIHI VAEKEKKIKE
FLKIMGLHDT AFWLSWVLLY TSLIFLMSLL MAVIATASLL FPQSSSIVIF LLFFLYGLSS
VFFALMLTPL FKKSKHVGIV EFFVTVAFGF IGLMIILIES FPKSLVWLFS PFCHCTFVIG
IAQVMHLEDF NEGASFSNLT AGPYPLIITI IMLTLNSIFY VLLAVYLDQV IPGEFGLRRS
SLYFLKPSYW SKSKRNYEEL SEGNVNGNIS FSEIIEPVSS EFVGKEAIRI SGIQKTYRKK
GENVEALRNL SFDIYEGQIT ALLGHSGTGK STLMNILCGL CPPSDGFASI YGHRVSEIDE
MFEARKMIGI CPQLDIHFDV LTVEENLSIL ASIKGIPANN IIQEVQKVLL DLDMQTIKDN
QAKKLSGGQK RKLSLGIAVL GNPKILLLDE PTAGMDPCSR HIVWNLLKYR KANRVTVFST
HFMDEADILA DRKAVISQGM LKCVGSSMFL KSKWGIGYRL SMYIDKYCAT ESLSSLVKQH

MSTAIREVGV WROTRTLLLK NYLIKCRTKK SSVOEILFPL FFLFWLILIS MMHPNKKYEE

IPGATLLQQN DQQLVYSLPF KDMDKFSGLF SALDSHSNLG VISYGVSMTT LEDVFLKLEV
EAEIDQADYS VFTQQPLEEE MDSKSFDEME QSLLILSETK AALVSTMSLW KQQMYTIAKF
HFFTLKRESK SVRSVLLLLL IFFTVQIFMF LVHHSFKNAV VPIKLVPDLY FLKPGDKPHK
YKTSLLLQNS ADSDISDLIS FFTSQNIMVT MINDSDYVSV APHSAALNVM HSEKDYVFAA
VFNSTMVYSL PILVNIISNY YLYHLNVTET IQIWSTPFFQ EITDIVFKIE LYFQAALLGI IVTAMPPYFA
MENAENHKIK AYTQLKLSGL LPSAYWIGQA VVDIPLFFII LILMLGSLLA FHYGLYFYTV
KFLAVVFCLI GYVPSVILFT YIASFTFKKI LNTKEFWSFI YSVAALACIA ITEITFFMGY TIATILHYAF
CIIIPIYPLL GCLISFIKIS WKNVRKNVDT YNPWDRLSVA VISPYLQCVL WIFLLQYYEK
KYGGRSIRKD PFFRNLSTKS KNRKLPEPPD NEDEDEDVKA ERLKVKELMG CQCCEEKPSI
MVSNLHKEYD DKKDFLLSRK VKKVATKYIS FCVKKGEILG LLGPNGAGKS TIINILVGDI
EPTSGQVFLG DYSSETSEDD DSLKCMGYCP QINPLWPDTT LQEHFEIYGA VKGMSASDMK
EVISRITHAL DLKEHLQKTV KKLPAGIKRK LCFALSMLGN PQITLLDEPS TGMDPKAKQH
MWRAIRTAFK NRKRAAILTT HYMEEAEAVC DRVAIMVSGQ LRCIGTVQHL KSKFGKGYFL
EIKLKDWIEN LEVDRLQREI QYIFPNASRQ ESFSSILAYK IPKEDVQSLS QSFFKLEEAK
HAFAIEEYSF SQATLEQVFV ELTKEQEEED NSCGTLNSTL WWERTQEDRV VF

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- · 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.

Expression System:

 ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.

· During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- 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.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

- 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. 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:

>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Endotoxin Level:

Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

Grade:

Crystallography grade

Target Details

Target:	ABCA5
Alternative Name:	ABCA5 (ABCA5 Products)
Background:	Cholesterol transporter ABCA5 (EC 7.6.2) (ATP-binding cassette sub-family A member
	5),FUNCTION: Cholesterol efflux transporter in macrophages that is responsible for
	APOAI/high-density lipoproteins (HDL) formation at the plasma membrane under high
	cholesterol levels and participates in reverse cholesterol transport (PubMed:25125465). May
	play a role in the processing of autolysosomes (By similarity).
	{ECO:0000250 UniProtKB:Q8K448, ECO:0000269 PubMed:25125465}.

Target Details

Molecular Weight:	186.5 kDa
UniProt:	Q8WWZ7

Application Details

Comment:

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.

ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.

During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)



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