antibodies

Datasheet for ABIN3131605 ABCA4 Protein (AA 857-1375) (His tag)

Image



Overview

Quantity:	1 mg
Target:	ABCA4
Protein Characteristics:	AA 857-1375
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ABCA4 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	LDQVFPGDYG TPLPWYFLLQ ESYWLGGEGC STREERALEK TEPLTEEMED PEHPEGMNDS
	FFERELPGLV PGVCVKNLVK VFEPSGRPAV DRLNITFYEN QITAFLGHNG AGKTTTLSIL
	TGLLPPTSGT VLIGGKDIET NLDVVRQSLG MCPQHNILFH HLTVAEHILF YAQLKGRSWE
	EAQLEMEAML EDTGLHHKRN EEAQDLSGGM QRKLSVAIAF VGDSKVVVLD EPTSGVDPYS
	RRSIWDLLLK YRSGRTIIMS THHMDEADLL GDRIAIISQG RLYCSGTPLF LKNCFGTGFY
	LTLVRKMKNI QSQRGGCEGV CSCTSKGFST RCPTRVDEIT EEQVLDGDVQ ELMDLVYHHV
	PEAKLVECIG QELIFLLPNK NFKQRAYASL FRELEETLAD LGLSSFGISD TPLEEIFLKV
	TEDAGAGSMF VGGAQQKREQ AGLRHPCSAP TEKLRQYAQA PHTCSPGQVD PPKGQPSPEP
	EDPGVPFNTG ARLILQHVQA LLVKRFHHTI RSRKDFVAQ
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3131605 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Mouse Abca4 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:
	 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. 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
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN3131605 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

Target Details

Alternative Name:Abca4 (ABCA4 Products)Background:In the visual cycle, acts as an inward-directed retinoid flipase, retinoid su ABCA4 from the extracellular or intradiscal (rod) membrane surfaces to membrane surface are all-trans-retinaldehyde (ATR) and N-retinyl-phosp (NR-PE). Once transported to the cytoplasmic surface, ATR is reduced to retinol dehydrogenase (tRDH) and then transferred to the retinal pigmer where it is converted to 11-cis-retinal. May play a role in photoresponse, from the extracellular photoreceptor surfaces during bleach recovery (B (EC0:000250).Molecular Weight:58.7 kDa Including tag.UniProt:035600Application DetailsIn addition to the applications listed above we expect the protein to wor as well. As the protein has not been tested for functional studies yet we though.	
ABCA4 from the extracellular or intradiscal (rod) membrane surfaces to membrane surface are all-trans-retinaldehyde (ATR) and N-retinyl-phosp (NR-PE). Once transported to the cytoplasmic surface, ATR is reduced to retinol dehydrogenase (tRDH) and then transferred to the retinal pigmer where it is converted to 11-cis-retinal. May play a role in photoresponse, from the extracellular photoreceptor surfaces during bleach recovery (B {ECO:0000250}. Molecular Weight: 58.7 kDa Including tag. UniProt: 035600 Application Details Application Notes: In addition to the applications listed above we expect the protein to wor as well. As the protein has not been tested for functional studies yet we	
UniProt: 035600 Application Details Application Notes: In addition to the applications listed above we expect the protein to wor as well. As the protein has not been tested for functional studies yet we	the cytoplasmic ohatidyl-ethanolamine o vitamin A by trans- nt epithelium (RPE) , removing ATR/NR-PE
Application Details Application Notes: In addition to the applications listed above we expect the protein to wor as well. As the protein has not been tested for functional studies yet we	
Application Notes:In addition to the applications listed above we expect the protein to wor as well. As the protein has not been tested for functional studies yet we	
as well. As the protein has not been tested for functional studies yet we	
Comment: Protein has not been tested for activity yet. In cases in which it is highly recombinant protein with the default tag will be insoluble our protein lab molecular weight tag (e.g. GST-tag) instead to increase solubility. We will options with you in detail to assure that you receive your protein of inter	n may suggest a higher ill discuss all possible
Restrictions: For Research Use only	
Handling	
Format: Liquid	
Buffer: 100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion	n 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)	

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN3131605 | 09/11/2023 | Copyright antibodies-online. All rights reserved. Images

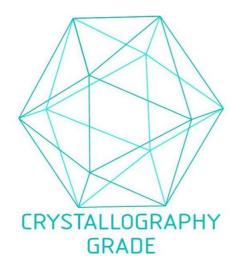


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 4/4 | Product datasheet for ABIN3131605 | 09/11/2023 | Copyright antibodies-online. All rights reserved.