

Datasheet for ABIN7554614

ABCC1 Protein (AA 1-1531) (His tag)



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Overview

Quantity:	1 mg
Target:	ABCC1
Protein Characteristics:	AA 1-1531
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ABCC1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat ABCC1 Protein expressed in mammalian cells.
Sequence:	MALRGFCSAD GSDPLWDWNV TWNTSNPDFT KCFQNTVLVW VPCFYLWACF PFYFLYLSRH DRGYIQMTPL NKTKTALGFL LWIVCWADLF YSFWERSRGI FLAPVFLVSP TLLGITMLLA TFLIQLERRK GVQSSGIMLT FWLVALVCAL AILRSKIMTA LKEDAQVDLF RDITFYVYFS LLLIQLVLSC FSDRSPLFSE TIHDPNPCPE SSASFLSRIT FWWITGLIVR GYRQPLEGSD LWSLNKEDTS EQVVPVLVKN WKKECAKTRK QPVKVYSSK DPAQPKESSK VDANEEVEAL IVKSPQKEWN PSLFKVLYKT FGPYFLMSFF FKAHDLMMF SGPQILKLLI KFNVDTKAPD WQGYFYTVLL FVTACLQTLV LHQYFHICFV SGMRIKTAVI GAVYRKALVI TNSARKSSTV GEIVNLMSVD AQRFMDLATY INMIWSAPLQ VILALYLLWL NLGPSVLAGV AVMVLMVPVN AVMAMKTKTY QVAHMKSKDN RIKLMNEILN GIKVLKLYAW ELAFKDKVLA IRQEELKVLK KSAYLSAVGT FTWVCTPFLV ALCTFAVYVT IDENNILDAQ TAFVSLALFN ILRFLNLP MVISSIVQAS VSLKRLRIFL SHEELEPDSI ERRPVKDGGG TNSITVRNAT FTWARSPPPT

LNGITFSIPE GALVAVVGQV GCGKSSLLSA LLAEMDKVEG HVAIKGSVAY VPQQAWIQND
SLRENILFGC QLEPPYYRSV IQACALLPDL EILPSGDRTE IGEKGVNLSG GQKQRVSLAR
AVYSNADIYL FDDPLSAVDA HVGKHIFENV IGPKGMLKNK TRILVTHSMS YLPQVDVIIV
MSGGKISEMG SYQELLARDG AFAEFLRTYA STEQEQDAEE NGVTGVSGPG KEAKQMENG
LVTDSAGKQL QRQLSSSSSY SGDISRHHNS TAEKQAEAK KEETWKLMEA DKAQTGQVKL
SVYWDYMKAI GLFISFLSIF LFMCNHVSAL ASNYWLSLWT DDPIVNGTQE HTKVRLSVYG
ALGISQGIIV FGYSMAVSIG GILASRCLHV DLLHSILRSP MSFFERTPSG NLVNRFSKEL
DTVDSMIPEV IKMFMGSLFN VIGACIVILL ATPIAAIIP PLGLIYFFVQ RFYVASSRQL KRLESVSRSP
VYSHFNETLL GVSIVIRAFEE QERFIHQSDL KVDENQKAYY PSIVANRWLA VRLECVGNIC
VLFAALFAVI SRHSLSAGLV GLSVSYSLQV TTYLNWLVRM SSEMETNIVA VERLKEYSET
EKEAPWQIQE TAPPSSWPQV GRVEFRNYCL RYREDLDFVL RHINVTINGG EKVIGVGRG
AGKSSLTLGL FRINESAEGE IIDGINIAK IGLHDLRFKI TIIPQDPVLF SGSLRMNLDP FSQYSDEEVW
TSLELAHLKD FVSALPKLD HECAEGGENL SVGQRQLVCL ARALLRKTKE LVLDEATAAV
DLETDDLIQS TIRTQFEDCT VLTIAHRLNT IMDYTRVIVL DKGEIQEYGA PSDLLQQRGL
FYMAKDAGL V **Sequence without tag. The proposed Purification-Tag is based on experiences 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 to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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 try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:	ABCC1
Alternative Name:	ABCC1 (ABCC1 Products)
Background:	Multidrug resistance-associated protein 1 (EC 7.6.2.2) (ATP-binding cassette sub-family C member 1) (Glutathione-S-conjugate-translocating ATPase ABCC1) (EC 7.6.2.3) (Leukotriene C(4) transporter) (LTC4 transporter),FUNCTION: Mediates export of organic anions and drugs from the cytoplasm (PubMed:7961706, PubMed:16230346, PubMed:9281595, PubMed:10064732, PubMed:11114332). Mediates ATP-dependent transport of glutathione and glutathione conjugates, leukotriene C4, estradiol-17-beta-o-glucuronide, methotrexate, antiviral drugs and other xenobiotics (PubMed:7961706, PubMed:16230346, PubMed:9281595, PubMed:10064732, PubMed:11114332). Confers resistance to anticancer drugs by decreasing accumulation of drug in cells, and by mediating ATP- and GSH-dependent drug export (PubMed:9281595). Hydrolyzes ATP with low efficiency (PubMed:16230346). Catalyzes the export of sphingosine 1-phosphate from mast cells independently of their degranulation (PubMed:17050692). Participates in inflammatory response by allowing export of leukotriene C4 from leukotriene C4-synthesizing cells (By similarity). Mediates ATP-dependent, GSH-independent cyclic GMP-AMP (cGAMP) export (PubMed:36070769). Thus, by limiting intracellular cGAMP concentrations negatively regulates the cGAS-STING pathway (PubMed:36070769). {ECO:0000250 UniProtKB:O35379, ECO:0000269 PubMed:10064732, ECO:0000269 PubMed:11114332, ECO:0000269 PubMed:16230346, ECO:0000269 PubMed:17050692, ECO:0000269 PubMed:36070769, ECO:0000269 PubMed:7961706, ECO:0000269 PubMed:9281595}.
Molecular Weight:	171.6 kDa
UniProt:	P33527
Pathways:	SARS-CoV-2 Protein Interactome

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.
Restrictions:	For Research Use only

Handling

Format:	Liquid
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Handling

Buffer:	The buffer composition 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:	12 months