

Datasheet for ABIN7554517

ABCB1 Protein (AA 1-1280) (His tag)



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Overview

Quantity:	1 mg
Target:	ABCB1
Protein Characteristics:	AA 1-1280
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ABCB1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat ABCB1 Protein expressed in mammalian cells.
Sequence:	MDLEGDRNGG AKKKNFFKLN NKSEKDKKEK KPTVSVFSMF RYSNWLDKLY MVVGTLAAII HGAGLPLMML VFGEMTDIFA NAGNLEDLMS NITNRSDIND TGFFMNLEED MTRYAYYYSG IGAGVLVAAY IQVSFWCLAA GRQIHKIRKQ FFHAIMRQEI GWFDVHDVGE LNTRLTDDVS KINEGIGDKI GMFFQSMATF FTGFIVGFTR GWKLTIVILA ISPVLGLSAA VWAKILSSFT DKELLAYAKA GAVAEVLAA IRTVIAFGGQ KELERYNKN LEEAKRIGIK KAITANISIG AAFLLIYASY ALAFWYGTTL VLSGEYSIGQ VLTVFFSVLI GAFSVGQASP SIEAFANARG AAYEIFKIID NKPSIDSYSK SGHKPDNIKG NLEFRNVHFS YPSRKEVKIL KGLNLKVQSG QTVLVGNNSG CGKSTTVQLM QRLYDPTEGM VSDVGQDIRT INVRFLREII GVVSQEPVLF ATTIAENIRY GRENVTMDEI EKAVKEANAY DFIMKLPHKF DTLVGGERGAQ LSGGQKQRIA IARALVRNPK ILLLDEATSA LDTESEAVVQ VALDKARKGR TTIVIAHRLS TVRNADVIAG FDDGVIVEKG NHDELMKEKG IYFKLVMTQT AGNEVELENA ADESKSEIDA LEMSSNDSRS SLIRKRSTRR

SVRGSQAQDR KLSTKEALDE SIPPVSFWRI MKLNLTEWPY FVVGVFCAII NGGLQPAFAI
IFSKIIGVFT RIDDPETKRQ NSNLFSLFL ALGIISFITF FLQGFTFGKA GEILTKRLRY MVFRSMLRQD
VSWFDDPKNT TGALTTRLAN DAAQVKGAIG SRLAVITQNI ANLGTGIIIS FIYGWQLTLL LLAIVPIAI
AGVDEMMLLS GQALKDKKEL EGSGKATEA IENFRTVVSL TQEQKFEHMY AQLQVPYRN
SLRKAHIFGI TFSFTQAMMY FSYAGCFRFG AYLVVHKLMS FEDVLLVFSA VVFGAMAVGQ
VSSFAPDYAK AKISAAHIIM IIEKTPLIDS YSTEGMLPNT LEGNVTFGEV VFNYPTRPDI
PVLQGLSLEV KKGQTLALVG SSGCGKSTVV QLLERFYDPL AGKVLLDGKE IKRLNVQWLR
AHLGIVSQEP ILFDCSIAEN IAYGDNSRVV SQEEIVRAAK EANIHFIES LPNKYSTKVG
DKGTQLSGGQ KQRIAIARAL VRQPHILLD EATSALDTE EKVVEALDK AREGRTCVI
AHLSTIQNA DLIVVFQNGR VKEHGTHQQL LAQKGIYFSM VSVQAGTKRQ **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.
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Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	ABCB1
Alternative Name:	ABCB1 (ABCB1 Products)

Target Details

Background:	ATP-dependent translocase ABCB1 (ATP-binding cassette sub-family B member 1) (Multidrug resistance protein 1) (EC 7.6.2.2) (P-glycoprotein 1) (Phospholipid transporter ABCB1) (EC 7.6.2.1) (CD antigen CD243),FUNCTION: Translocates drugs and phospholipids across the membrane (PubMed:8898203, PubMed:2897240, PubMed:9038218, PubMed:35970996). Catalyzes the flop of phospholipids from the cytoplasmic to the exoplasmic leaflet of the apical membrane. Participates mainly to the flop of phosphatidylcholine, phosphatidylethanolamine, beta-D-glucosylceramides and sphingomyelins (PubMed:8898203). Energy-dependent efflux pump responsible for decreased drug accumulation in multidrug-resistant cells (PubMed:2897240, PubMed:9038218, PubMed:35970996). {ECO:0000269 PubMed:2897240, ECO:0000269 PubMed:35970996, ECO:0000269 PubMed:8898203, ECO:0000269 PubMed:9038218}.
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Molecular Weight:	141.5 kDa
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UniProt:	P08183
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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.
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
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