Datasheet for ABIN7551792

ABCB6 Protein (AA 1-842) (His tag)

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Overview

Quantity:	1 mg
Target:	ABCB6
Protein Characteristics:	AA 1-842
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ABCB6 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat ABCB6 Protein expressed in mammalien cells.
Sequence:	MVTVGNYCEA EGPVGPAWMQ DGLSPCFFFT LVPSTRMALG TLALVLALPC RRRERPAGAD SLSWGAGPRI SPYVLQLLLA TLQAALPLAG LAGRVGTARG APLPSYLLLA SVLESLAGAC GLWLLVVERS QARQRLAMGI WIKFRHSPGL LLLWTVAFAA ENLALVSWNS PQWWWARADL GQQVQFSLWV LRYVVSGGLF VLGLWAPGLR PQSYTLQVHE EDQDVERSQV RSAAQQSTWR DFGRKLRLLS GYLWPRGSPA LQLVVLICLG LMGLERALNV LVPIFYRNIV NLLTEKAPWN SLAWTVTSYV FLKFLQGGGT GSTGFVSNLR TFLWIRVQQF TSRRVELLIF SHLHELSLRW HLGRRTGEVL RIADRGTSSV TGLLSYLVFN VIPTLADIII GIIYFSMFFN AWFGLIVFLC MSLYLTLTIV VTEWRTKFRR AMNTQENATR ARAVDSLLNF ETVKYYNAES YEVERYREAI IKYQGLEWKS SASLVLLNQT QNLVIGLGLL AGSLLCAYFV TEQKLQVGDY VLFGTYIIQL YMPLNWFGTY YRMIQTNFID MENMFDLLKE ETEVKDLPGA GPLRFQKGRI EFENVHFSYA DGRETLQDVS FTVMPGQTLA LVGPSGAGKS TILRLLFRFY DISSGCIRID GQDISQVTQA SLRSHIGVVP

Product Details

	QDTVLFNDTI ADNIRYGRVT AGNDEVEAAA QAAGIHDAIM AFPEGYRTQV GERGLKLSGG EKQRVAIART ILKAPGIILL DEATSALDTS NERAIQASLA KVCANRTTIV VAHRLSTVVN ADQILVIKDG CIVERGRHEA LLSRGGVYAD MWQLQQGQEE TSEDTKPQTM ER **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 mammalien 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:	ABCB6
Alternative Name:	ABCB6 (ABCB6 Products)
Background:	ATP-binding cassette sub-family B member 6 (ABC-type heme transporter ABCB6) (EC 7.6.2.5) (Mitochondrial ABC transporter 3) (Mt-ABC transporter 3) (P-glycoprotein-related protein) (Ubiquitously-expressed mammalian ABC half transporter),FUNCTION: ATP-dependent transporter that catalyzes the transport of a broad-spectrum of porphyrins from the cytoplasm to the extracellular space through the plasma membrane or into the vesicle lumen (PubMed:33007128, PubMed:27507172, PubMed:17661442, PubMed:23792964). May also function as an ATP-dependent importer of porphyrins from the cytoplasm into the

Target Details

	mitochondria, in turn may participate in the de novo heme biosynthesis regulation and in the coordination of heme and iron homeostasis during phenylhydrazine stress (PubMed:17006453, PubMed:10837493, PubMed:23792964, PubMed:33007128). May also play a key role in the early steps of melanogenesis producing PMEL amyloid fibrils (PubMed:29940187). In vitro, it confers to cells a resistance to toxic metal such as arsenic and cadmium and against chemotherapeutics agent such as 5-fluorouracil, SN-38 and vincristin (PubMed:25202056, PubMed:21266531, PubMed:31053883). In addition may play a role in the transition metal homeostasis (By similarity). {ECO:0000250|UniProtKB:O70595, ECO:0000269|PubMed:10837493, ECO:0000269|PubMed:17006453, ECO:0000269|PubMed:17661442, ECO:0000269|PubMed:21266531, ECO:0000269|PubMed:23792964, ECO:0000269|PubMed:25202056, ECO:0000269|PubMed:27507172, ECO:0000269|PubMed:29940187, ECO:0000269|PubMed:31053883, ECO:0000269|PubMed:33007128}.
Molecular Weight:	93.9 kDa
UniProt:	Q9NP58
Pathways:	Transition Metal Ion Homeostasis

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
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