

Datasheet for ABIN7561316

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



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Overview

Quantity:	1 mg
Target:	ABCB6
Protein Characteristics:	AA 1-842
Origin:	Mouse
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 mammalian cells.
Sequence:	<p>MVTVGNYCET EGPAGPAWTQ NGLSPCFFFT LVPSTLLTLG VLALVLVLPR RRREVPAGPE</p> <p>ELSWAAGPRV APYVLQLFLA TLQMALPLAG LAGRVGTARG VRLPGYLLLA SVLESLASVC</p> <p>GLWLLVVERS QARQSLAMGV WMKFRHSLGL LLLWTVTFAA ENLALVSWNS PQWWWARADL</p> <p>GQQVQFGLWV LRYVTSGGLF ILGLWAPGLR PQSYTLHVHE EDQDVGGNQG RSTDRRSTWR</p> <p>DLGRKLRLLS SYLWPRGSPS LQLIVLICLG LMGLERALNV LVPIFYRDIV NLLTAKAPWS</p> <p>SLAWTVTTYV FLKFLQGGGT GSTGFVSNLR TFLWIRVQQF TSRGVELRLF SHLHELRLRW</p> <p>HLGRRTGEVL RIVDRGTSSV TGLLSYLVFS IIPTLADIII GIIYFSMFFN AWFG LIVFLC MSLYLILTIV</p> <p>VTEWRAKFRR DMNTQENATR ARAVDSLLNF ETVKYYGAEG YEVDYREAI LKFQGLEWKS</p> <p>TASLVVLNQT QNLVIGLGLL AGSLLCAYFV SEQKLQVGDF VLFGTYTQL YMLNWFQGT</p> <p>YRMIQTNFID MENMFDLLKE ETEVKDVPGA GPLRFHKGRI EFENVHFSYA DGQETLQDVS</p> <p>FTVMPGQTVA LVGPSGAGKS TILRLLFRFY DISSGCIRID GQDISQVTQI SLRSHIGVVP</p>

QDTVLFNDTI ANNIRYGRVT AGDSEVEAAA QAAGIHDAIL SFPEGYETQV GERGLKLSGG
EKQRVAIART ILKAPDIILL DEATSALDTS NERAIQASLA KVCTNRTTIV IAHRLSTVVN ADQILVIKDG
CIIERGRHEA LLSRGGVYAE MWQLQQQGQE TVPEESKPQD TA **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:	<p>Key Benefits:</p> <ul style="list-style-type: none">• 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). <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
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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),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:27507172). May also function as an ATP-dependent importer of porphyrins from the cytoplasm into the 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:22294697, PubMed:17006453). May

Target Details

play a key role in the early steps of melanogenesis producing PMEL amyloid fibrils (By similarity). 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 (By similarity). In addition may play a role in the transition metal homeostasis (By similarity). {ECO:0000250|UniProtKB:O70595, ECO:0000250|UniProtKB:Q9NP58, ECO:0000269|PubMed:17006453, ECO:0000269|PubMed:22294697, ECO:0000269|PubMed:27507172}.

Molecular Weight: 93.8 kDa

UniProt: [Q9DC29](#)

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