

Recombinant Full Length Human ABCB7 Protein, His & Flag-tagged

Cat. No. ABCB7-02HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full length recombinant protein. Expressed in HEK293 cells with N-terminal 8xHis tag and C-terminal Flag tag (DYKDDDDK). Detectable by anti-His and anti-Flag antibody in WB.
Species	Human
Source	HEK293
ProteinLength	Full Length
Description	ABCB7 (ATP Binding Cassette Subfamily B Member 7) is a mitochondrial half-transporter involved in the transport of heme and iron-sulfur cluster precursors from the mitochondria to the cytosol. Mutations in ABCB7 cause X-linked sideroblastic anemia with ataxia (XLSA/A). Recombinant Full Length Human ABCB7 Protein is produced in HEK293 cells with N-terminal His tag and C-terminal Flag tag. The protein functions in mitochondrial iron metabolism and plays a critical role in erythroid maturation and heme biosynthesis.
Form	Liquid
Molecular Mass	81 kDa (calculated)
AASequence	HHHHHHHPQWRPHQLGALGTARAYQIPESLKSITWQRLGKGNSGQFLDAAKALQ VWPLIEKRTCWHGHAGGGLHTDPKEGLKDVDTRKIIKAMLSYVWPKDRPDLRARVA

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ISLGFLGGAKAMNIVVPMFKYAVDSLQMSGNMLNLSAPNTVATMATAVLIGYGV
 SRAGAAFFNEVRNAVFGKVAQNSIRRIAKNVFLHLHNLDLGFHLSRQTGALSKAIDR
 GTRGISFVLSALVFNLLPIMFEVMLVSGVLYYKCGAQFALVTLGTLGTYTAFTVAVTR
 WRTRFRIEMNKADNDAGNAIDSLLNYETVKYFNENERYEAQRYDGFLLKTYETASLKS
 TSTLAMLNFGQSAIFSVGLTAIMVLASQGIVAGTLTVGDLVMVNGLLFQLSLPLNFLG
 TVYRETRQALIDMNTLFTLLKVDVTQIKDKVMASPLQITPQTATVAFDNVHFEYIEGQK
 VLSGISFEVPAGKKVAIVGGSGSGKSTIVRLLFRFYEPQKGSYLAGQNIQDVSLESRL
 RAVGVVPQDAVLFHNTIYYNLLYGNISASPEEVYAVAKLAGLHDAILRMPHGYDTQV
 GERGLKLSGGEKQRVAIARAILKDPPVILYDEATSSLD SITEETILGAMKDVVKHRTSI
 FIAHRLSTVDADEIIVLDQGKVAERGTHHGLLANPHSIYSEMWHWTQSSRVQNHDNP
 KWEAKKENISKEEERKKLQEEIVNSVKGCGNCSCDYKDDDDK

Purity	>80% by SDS-PAGE
Applications	SDS-PAGE, Western Blot
Storage	Store under sterile conditions at -20 to -80C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Concentration	0.02 mg/mL (Bradford)
mRNA Refseq-Weblink	NM_004299
Protein Refseq-Weblink	NP_004290
Reference	WB (Anti-His Mouse Monoclonal antibody) analysis profile of purified ABCB7
Reaction conditions	Western Blot

Extinction Coefficient	150 mM NaCl, 30 mM MES, pH 6.5, 2 mM DTT, 0.01% LMNG, 0.0033% GDN
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GENE INFORMATION

Gene Name	ABCB7
Official Symbol	ABCB7
Synonyms	ABC7; ASAT; ABC-7; MTABC3
Gene ID	22
MIM	300135

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