Recombinant Human ABCB7, GST-tagged

Cat. No. ABCB7-23H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ABCB7(39 a.a. - 753 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
Description	The membrane-associated protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MDR/TAP subfamily. Members of the MDR/TAP subfamily are involved in multidrug resistance as well as antigen presentation. This gene encodes a half-transporter involved in the transport of heme from the mitochondria to the cytosol. With iron/sulfur cluster precursors as its substrates, this protein may play a role in metal homeostasis. Mutations in this gene have been associated with mitochondrial iron accumulation and isodicentric (X)(q13) and sideroblastic anemia. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.
Molecular Mass	104.39 kDa
AA Sequence	PQWRPHQLGALGTARAYQQIPESLKSITWQRLGKGNSGQFLDAAKALQVWPLIEKR TCWHGHAGGGLHTDPKEGL KDVDTRKIIKAMLSYVWPKDRPDLRARVAISLGFLGG

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	AKAMNIVVPFMFKYAVDSLNQMSGNMLNLSDAPNTVAT MATAVLIGYGVSRAGAAF FNEVRNAVFGKVAQNSIRRIAKNVFLHLHNLDLGFHLSRQTGALSKAIDRGTRGISF V LSALVFNLLPIMFEVMLVSGVLYYKCGAQFALVTLGTLGTYTAFTVAVTRWRTRFRIE MNKADNDAGNAAIDSL LNYETVKYFNNERYEAQRYDGFLKTYETASLKSTSTLAML NFGQSAIFSVGLTAIMVLASQGIVAGTLTVGDLVM VNGLLFQLSLPLNFLGTVYRETR QALIDMNTLFTLLKVDTQIKDKVMASPLQITPQTATVAFDNVHFEYIEGQKV LSGISFE VPAGKKVAIVGGSGSGKSTIVRLLFRFYEPQKGSIYLAGQNIQDVSLESLRRAVGVVP QDAVLFHNTI YYNLLYGNISASPEEVYAVAKLAGLHDAILRMPHGYDTQVGERGLKL SGGEKQRVAIARAILKDPPVILYDEATS SLDSITEETILGAMKDVVKHRTSIFIAHRLST VVDADEIIVLDQGKVAERGTHHGLLANPHSIYSEMWHTQSSRV QNHDNPKWEAKK ENISKEEERKKLQEEIVNSVKGCGNCSC
Applications	ELISA; WB-Re; AP; Array
Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	ABCB7 ATP-binding cassette, sub-family B (MDR/TAP), member 7 [Homo sapiens]
Official Symbol	ABCB7
Synonyms	ABCB7; ATP-binding cassette, sub-family B (MDR/TAP), member 7; ABC7; ATP-binding cassette sub-family B member 7, mitochondrial; ASAT; Atm1p; EST140535
Gene ID	22
mRNA Refseq	NM_004299

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Protein Refseq	NP_004290
MIM	300135
UniProt ID	O75027
Chromosome Location	Xq13.3
Pathway	ABC transporters; ABC-family proteins mediated transport; Cytosolic iron-sulfur cluster assembly
Function	ATP binding; ATPase activity, coupled to transmembrane movement of substances; heme transporter activity

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