ABCB6 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ABCB6, Polyclonal Antibody
Full Product Name	ABCB6 Antibody
Product Gene Name	anti-ABCB6 antibody
Product Synonym Names	ATP-binding cassette sub-family B member 6, mitochondrial (Mitochondrial ABC transporter 3)(Mt-ABC transporter 3)(P-glycoprotein-related protein)(Ubiquitously-expressed mammalian ABC half transporter)
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration	1mg/ml (lot specific)
Specificity	This antibody detects endogenous levels of ABCB6 at Human, Mouse,Rat
Preparation and Storage	Store at -20 degree C/1 year
Molecular Weight	88,600 Da
OMIM	615402
3D Structure	ModBase 3D Structure for Q9NP58
Immunogen	Synthesized peptide derived from human ABCB6
Modification	Unmodified/Total
Product Categories/Family for anti-ABCB6 antibody	Primary Antibodies
Applications Tested/Suitable for anti-ABCB6 antibody	Western Blot (WB)
Application Notes for anti-ABCB6 antibody	WB: 1:500-2000
Related Product Information for anti-ABCB6 antibody	MBS9522145 is an antibody targeting ABCB6. Also known as ABCB6 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-ABCB6 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ABCB6. It may not necessarily be applicable to this product.

NCBI GI #	13123949

NCBI GeneID	10058
NCBI Accession #	Q9NP58.1
UniProt Primary Accession #	Q9NP58
UniProt Secondary Accession #	O75542; Q49A66; Q59GQ5; Q6ZME6; Q96ME8; Q9HAQ6; Q9HAQ7
UniProt Related Accession #	Q9NP58
NCBI Official Full Name	ATP-binding cassette sub-family B member 6, mitochondrial
NCBI Official Synonym Full Names	ATP-binding cassette, sub-family B (MDR/TAP), member 6 (Langereis blood group)
NCBI Official Symbol	ABCB6
NCBI Official Synonym Symbols	ABC; LAN; PRP; DUH3; umat; ABC14; MTABC3; MCOPCB7
UniProt Protein Name	ATP-binding cassette sub-family B member 6, mitochondrial
UniProt Synonym Protein Names	Mitochondrial ABC transporter 3; Mt-ABC transporter 3; P-glycoprotein-related protein; Ubiquitously-expressed mammalian ABC half transporter
Protein Family	ABC transporter B family
UniProt Gene Name	ABCB6
UniProt Synonym Gene Names	MTABC3; PRP; UMAT; Mt-ABC transporter 3
UniProt Entry Name	ABCB6_HUMAN
NCBI Protein Information	ATP-binding cassette sub-family B member 6, mitochondrial; mt-ABC transporter 3; P-glycoprotein-related protein; mitochondrial ABC transporter 3; ATP-binding cassette half-transporter; ubiquitously-expressed mammalian ABC half transporter
NCBI Summary for ABCB6	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 half-transporter likely plays a role in mitochondrial function. Localized to 2q26, this gene is considered a candidate gene for lethal neonatal metabolic syndrome, a disorder of mitochondrial function. [provided by RefSeq, Jul 2008]

UniProt Comments for ABCB6	ABCB6: Binds heme and porphyrins and functions in their ATP- dependent uptake into the mitochondria. Plays a crucial role in heme synthesis. Defects in ABCB6 are the cause of microphthalmia, isolated, with coloboma, type 7 (MCOPCB7). A disorder of eye formation, ranging from small size of a single eye to complete bilateral absence of ocular tissues. Ocular abnormalities like opacities of the cornea and lens, scaring of the retina and choroid, cataract and other abnormalities like cataract may also be present. Ocular colobomas are a set of malformations resulting from abnormal morphogenesis of the optic cup and stalk, and the fusion of the fetal fissure (optic fissure). Belongs to the ABC transporter superfamily. ABCB family. Heavy Metal importer (TC 3.A.1.210) subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Transporter, ABC family; Hydrolase; Mitochondrial; Membrane protein, integral; Transporter; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 2q36 Cellular Component: mitochondrial envelope; Golgi apparatus; mitochondrial outer membrane; mitochondrion; endoplasmic reticulum; plasma membrane; ATP-binding cassette (ABC) transporter complex; endosome; integral to mitochondrial outer membrane Molecular Function: efflux transmembrane transporter activity; heme-transporting ATPase activity; heme transporter activity; heme binding; ATP binding Biological Process: skin development; heme transport; cellular iron ion homeostasis; transport; brain development; porphyrin biosynthetic process; transmembrane transport Disease: Dyschromatosis Universalis Hereditaria 3; Blood Group, Langereis System; Microphthalmia, Isolated, With Coloboma 7
Research Articles on ABCB6	**1.** We describe eight new mutations in ABCB6 of which seven, including three missense mutations, underlie the Lan- phenotype and determine that a complete gene deletion of ABCG2 or ABCB6 is not responsible for the Jr(a-) or Lan- phenotype, respectively.
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