ABCB5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ABCB5, Polyclonal Antibody
Full Product Name	ABCB5, NT (ABCB5, ATP-binding cassette sub-family B member 5, ABCB5 P-gp, P-glycoprotein ABCB5) (MaxLight 550)
Product Gene Name	anti-ABCB5 antibody
Product Synonym Names	ABCB5; ATP-binding cassette sub-family B member 5; ABCB5 P-gp; P-glycoprotein ABCB5
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by saturated ammonium sulfate precipitation followed by dialysis against PBS.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	89,832 Da
OMIM	611785
3D Structure	ModBase 3D Structure for Q2M3G0
Immunogen	ABCB5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1~30 amino acids from the N-terminal region of human ABCB5.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-ABCB5 antibody	Antibodies; Multi Drug Resistance (MDR)
Applications Tested/Suitable for anti-ABCB5 antibody	Western Blot (WB), FLISA, Flow Cytometry (FC/FACS)
Application Notes for anti-ABCB5 antibody	WB: 1:50-100 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-ABCB5 antibody	ABCB5 belongs to the ATP-binding cassette (ABC) transporter superfamily of integral membrane proteins. These proteins participate in ATP-dependent transmembrane transport of structurally diverse molecules ranging from small ions, sugars, and peptides to more complex organic molecules.
Product References and Citations for anti-ABCB5 antibody	Frank, N.Y., Cancer Res. 65 (10), 4320-4333 (2005). Chen, K.G., Pigment Cell Res. 18 (2), 102-112 (2005). Frank, N.Y., J. Biol. Chem. 278 (47), 47156-47165 (2003).
Other Notes	Small volumes of anti-ABCB5 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.

Searchable Terms for ABCB5 purchase	MBS6270404 is an antibody targeting ABCB5. Also known as ABCB5, NT (ABCB5, ATP-binding cassette sub-family B member 5, ABCB5 P-gp, P-glycoprotein ABCB5) (MaxLight 550). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ABCB5. It may not necessarily be applicable to this product.

NCBI GI #	255708477
NCBI GeneID	340273
NCBI Accession #	NP_001157413.1
UniProt Primary Accession #	Q2M3G0
UniProt Secondary Accession #	Q2M3I5; Q5I5Q7; Q5I5Q8; Q6KG50; A4D131; A7BKA4; B5MD19; B7WPL1; F8QQP8; F8QQP9; J3KQ04
UniProt Related Accession #	Q2M3G0
GenBank Nucleotide #	NM_001163941.1
NCBI Official Full Name	ATP-binding cassette sub-family B member 5 isoform 1
NCBI Official Synonym Full Names	ATP-binding cassette, sub-family B (MDR/TAP), member 5
NCBI Official Symbol	ABCB5
NCBI Official Synonym Symbols	ABCB5beta; EST422562; ABCB5alpha
UniProt Protein Name	ATP-binding cassette sub-family B member 5
UniProt Synonym Protein Names	ABCB5 P-gp; P-glycoprotein ABCB5
Protein Family	ABC transporter B family
UniProt Gene Name	ABCB5
UniProt Entry Name	ABCB5_HUMAN
NCBI Protein Information	ATP-binding cassette sub-family B member 5; ABCB5 P-gp; ATP-binding cassette protein; P-glycoprotein ABCB5
NCBI Summary for ABCB5	ABCB5 belongs to the ATP-binding cassette (ABC) transporter superfamily of integral membrane proteins. These proteins participate in ATP-dependent transmembrane transport of structurally diverse molecules ranging from small ions, sugars, and peptides to more complex organic molecules (Chen et al., 2005 [PubMed 15760339]).[supplied by OMIM, Mar 2008]
UniProt Comments for ABCB5	ABCB5: Plasma membrane transporter able to mediate efflux from cells of the rhodamine dye and of the therapeutic drug doxorubicin. Responsible for the resistance to doxorubicin of a subset of malignant melanomas. Belongs to the ABC transporter superfamily. ABCB family. Multidrug resistance exporter (TC 3.A.1.201) subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, multi-pass; Membrane protein, integral; Transporter, ABC family; Transporter Chromosomal Location of Human Ortholog: 7p21.1 Cellular Component: integral to plasma membrane; plasma membrane Molecular Function: efflux transmembrane transporter activity; ATPase activity, coupled to transmembrane movement of substances; ATP binding Biological Process: regulation of membrane potential; metabolic process; compound eye corneal lens development; positive regulation of antigen processing and presentation of peptide antigen via MHC class I; cell differentiation; antigen processing and presentation of endogenous peptide antigen via MHC class Ib via ER pathway, TAP-dependent; transmembrane transport; antigen processing and presentation of exogenous protein antigen via MHC class Ib, TAP-dependent; antigen processing and presentation of endogenous peptide antigen via MHC class I via ER pathway, TAP-dependent

Research Articles on ABCB5	**1.** In melanoma-initiating cells, ABCB5 controls IL1beta secretion, which serves to maintain slow cycling, chemoresistant cells through an IL1beta/IL8/CXCR1 cytokine signaling circuit.
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