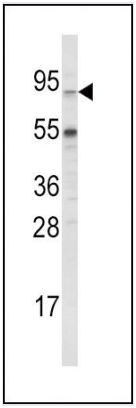
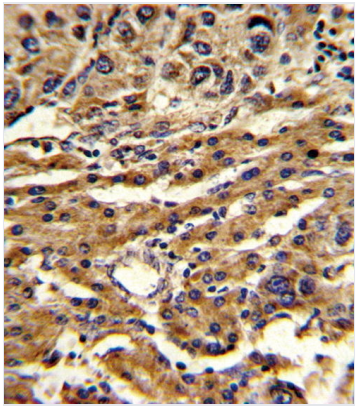
ABCG1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

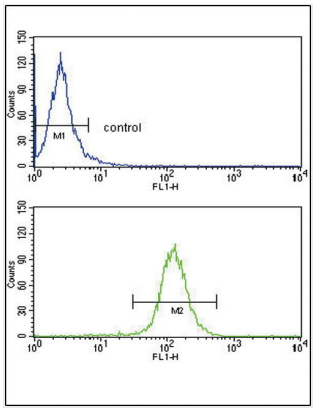
Product Name	ABCG1, Polyclonal Antibody
Full Product Name	ABCG1, NT (ATP-binding Cassette Sub-family G Member 1, ATP-binding Cassette Transporter 8, White Protein Homolog, WHT1, ABC8) (MaxLight 405)
Product Gene Name	anti-ABCG1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human ABCG1.
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: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	86,628 Da
OMIM	603076
3D Structure	ModBase 3D Structure for P45844
Immunogen	Synthetic peptide selected from the center region of human ABCG1 (KLH).
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-ABCG1 antibody	Antibodies; Multi Drug Resistance (MDR)
Applications Tested/Suitable for anti-ABCG1 antibody	Western Blot (WB), FLISA
Application Notes for anti-ABCG1 antibody	WB: 1:50-1:100 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-ABCG1 antibody	MBS6460864 is an antibody targeting ABCG1. Also known as ABCG1, NT (ATP-binding Cassette Sub-family G Member 1, ATP-binding Cassette Transporter 8, White Protein Homolog, WHT1, ABC8) (MaxLight 405). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-ABCG1 antibody	1. Furuyama, S., J. Atheroscler. Thromb. 16(3), 194-200 (2009). 2. Stefulj, J., Circ. Res. 104(5), 600-608 (2009). 3. Mauerer, R., Exp. Mol. Med. 41(2), 126-132 (2009).
Other Notes	Small volumes of anti-ABCG1 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.



Western Blot (WB) of anti-ABCG1 antibody
Western blot analysis of ABCG1 Antibody (Center) in 293 cell line lysates (35ug/lane). ABCG1 (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-ABCG1 antibody
Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with ABCG1 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-ABCG1 antibody
ABCG1 Antibody (Center) flow cytometry analysis of HepG2 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ABCG1. It may not necessarily be applicable to this product.

NCBI GI #	46592915
NCBI GeneID	9619
NCBI Accession #	NP_004906
UniProt Primary Accession #	P45844
UniProt Secondary Accession #	Q86SU8; Q96L76; Q9BXK6; Q9BXK7; Q9BXK8; Q9BXK9; Q9BXL0; Q9BXL1; Q9BXL2; Q9BXL3; Q9BXL4
UniProt Related Accession #	P45844
GenBank Nucleotide #	NM_004915
NCBI Official Full Name	ATP-binding cassette sub-family G member 1 isoform 4
NCBI Official Synonym Full Names	ATP-binding cassette, sub-family G (WHITE), member 1
NCBI Official Symbol	ABCG1
NCBI Official Synonym Symbols	ABC8; WHITE1
UniProt Protein Name	ATP-binding cassette sub-family G member 1
UniProt Synonym Protein Names	ATP-binding cassette transporter 8; White protein homolog

Protein Family	ABC transporter G family
UniProt Gene Name	ABCG1
UniProt Synonym Gene Names	ABC8; WHT1
UniProt Entry Name	ABCG1_HUMAN
NCBI Protein Information	ATP-binding cassette sub-family G member 1; ABC transporter 8; ATP-binding cassette transporter 8; ATP-binding cassette transporter member 1 of subfamily G; homolog of Drosophila white; white protein homolog (ATP-binding cassette transporter 8)
UniProt Comments for ABCG1	ABCG1: Transporter involved in macrophage lipid homeostasis. Is an active component of the macrophage lipid export complex. Could also be involved in intracellular lipid transport processes. The role in cellular lipid homeostasis may not be limited to macrophages. Belongs to the ABC transporter superfamily. ABCG family. Eye pigment precursor importer (TC 3.A.1.204) subfamily. 8 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Membrane protein, multi-pass; Transporter, ABC family; Transporter Chromosomal Location of Human Ortholog: 21q22.3 Cellular Component: Golgi membrane; nucleoplasm; Golgi apparatus; endoplasmic reticulum membrane; recycling endosome; mitochondrion; intracellular membrane-bound organelle; integral to plasma membrane; plasma membrane; endosome; external side of plasma membrane Molecular Function: protein dimerization activity; protein binding; protein homodimerization activity; phospholipid transporter activity; protein heterodimerization activity; cholesterol transporter activity; cholesterol binding; toxin transporter activity; phospholipid binding; sterol-transporting ATPase activity; ADP binding; ATP binding Biological Process: cholesterol metabolic process; detection of hormone stimulus; response to high density lipoprotein stimulus; positive regulation of cholesterol biosynthetic process; lipoprotein metabolic process; intracellular cholesterol transport; cholesterol efflux; response to lipid; response to organic substance; cholesterol homeostasis; amyloid precursor protein catabolic process; reverse cholesterol transport; regulation of transcription, DNA-dependent; phospholipid efflux; transmembrane transport; phospholipid homeostasis
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