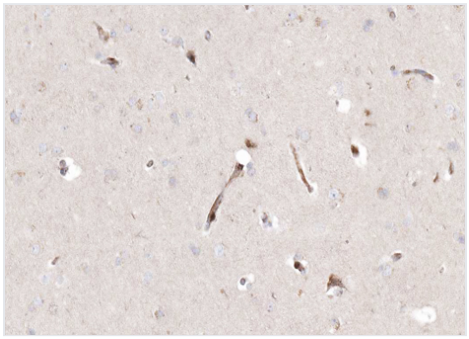
ABCG2 Antibody – Rabbit Polyclonal

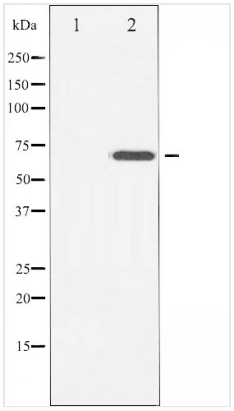
PRODUCT OVERVIEW

Product Name	ABCG2, Polyclonal Antibody
Full Product Name	ABCG2 Antibody
Product Gene Name	anti-ABCG2 antibody
Product Synonym Names	ABC transporter; ABC15; ABCG 2; ABCG2; ABCG2_HUMAN; ABCP; ATP binding cassette sub family G (WHITE) member 2; ATP binding cassette transporter G2; ATP-binding cassette sub-family G member 2; BCRP; BCRP1; BMDP; Breast cancer resistance protein; CD338; CDw338; CDw338 antigen; EST157481; GOUT1; MGC102821; Mitoxantrone resistance associated protein; Mitoxantrone resistance-associated protein; MRX; Multi drug resistance efflux transport ATP binding cassette sub family G (WHITE) member 2; MXR; MXR1; Placenta specific ATP binding cassette transporter; Placenta specific MDR protein; Placenta-specific ATP-binding cassette transporter; UAQTL1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Concentration	1mg/ml (lot specific)
Specificity	ABCG2 antibody detects endogenous levels of total ABCG2
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	ABCG2 peptide (MBS9616882) is used for blocking the activity of ABCG2 antibody (MBS9601350)
Molecular Weight	Observed: 72 kDa Predicted: 73 kDa
3D Structure	ModBase 3D Structure for Q9UNQ0
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human ABCG2
Subcellular Location	Cell Membrane
Tissue Specificity	Highly expressed in placenta. Low expression in small intestine, liver and colon.
Predicted Cross Reactivity	**Rabbit**
Similarity	Rabbit (89%)
Conjugation	Unconjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ABCG2 antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-ABCG2 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200

Related Product Information for anti-ABCG2 antibody	Function: High-capacity urate exporter functioning in both renal and extrarenal urate excretion. Plays a role in porphyrin homeostasis as it is able to mediates the export of protoporhyrin IX (PPIX) both from mitochondria to cytosol and from cytosol to extracellular space, and cellular export of hemin, and heme. Xenobiotic transporter that may play an important role in the exclusion of xenobiotics from the brain. Appears to play a major role in the multidrug resistance phenotype of several cancer cell lines. Implicated in the efflux of numerous drugs and xenobiotics: mitoxantrone, the photosensitizer pheophorbide, camptothecin, methotrexate, azidothymidine (AZT), and the anthracyclines daunorubicin and doxorubicin. Subunit Structure: Monomer under reducing conditions, the minimal functional units is a homodimer; disulfide-linked, but the major oligomeric form in plasma membranes is a homotetramer with possibility of higher order oligomerization up to homododecamers. Post-translational Modifications: Glycosylation-deficient ABCG2 is normally expressed and functional. Similarity: The extracellular loop 3 (ECL3) is involved in binding porphyrins and transfer them to other carriers, probably albumin. Belongs to the ABC transporter superfamily. ABCG family. Eye pigment precursor importer (TC 3.A.1.204) subfamily.
Other Notes	Small volumes of anti-ABCG2 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 ABCG2 purchase	MBS9601350 is an antibody targeting ABCG2. Also known as ABCG2 Antibody. Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC) of anti-ABCG2 antibody
MBS9601350 at 1/100 staining human brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



Western Blot (WB) of anti-ABCG2 antibody
Western blot analysis of ABCG2 expression in HT-29 cells, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ABCG2. It may not necessarily be applicable to this product.

NCBI GI #	383792176
NCBI GeneID	9429
NCBI Accession #	NP_001244315.1
UniProt Primary Accession #	Q9UNQ0
UniProt Secondary Accession #	O95374; Q4W5I3; Q53ZQ1; Q569L4; Q5YLG4; Q86V64; Q8IX16; Q96LD6; Q96TA8; A0A1W3; A8K1T5
UniProt Related Accession #	Q9UNQ0
GenBank Nucleotide #	NM_001257386.2
NCBI Official Full Name	ATP-binding cassette sub-family G member 2 isoform 2
NCBI Official Synonym Full Names	ATP binding cassette subfamily G member 2 (Junior blood group)
NCBI Official Symbol	ABCG2
NCBI Official Synonym Symbols	MRX; MXR; ABCP; BCRP; BMDP; MXR1; ABC15; BCRP1; CD338; GOUT1; MXR-1; CDw338; UAQTL1; EST157481

UniProt Protein Name	ATP-binding cassette sub-family G member 2
UniProt Synonym Protein Names	Breast cancer resistance protein; CDw338; Mitoxantrone resistance-associated protein; Placenta-specific ATP-binding cassette transporter; Urate exporter; CD_antigen: CD338
Protein Family	ABC transporter G family
UniProt Gene Name	ABCG2
UniProt Synonym Gene Names	ABCP; BCRP; BCRP1; MXR
NCBI Protein Information	ATP-binding cassette sub-family G member 2
NCBI Summary for ABCG2	The membrane-associated protein encoded by this gene is included in 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 White subfamily. Alternatively referred to as a breast cancer resistance protein, this protein functions as a xenobiotic transporter which may play a major role in multi-drug resistance. It likely serves as a cellular defense mechanism in response to mitoxantrone and anthracycline exposure. Significant expression of this protein has been observed in the placenta, which may suggest a potential role for this molecule in placenta tissue. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2012]
UniProt Comments for ABCG2	High-capacity urate exporter functioning in both renal and extrarenal urate excretion. Plays a role in porphyrin homeostasis as it is able to mediates the export of protoporhyrin IX (PPIX) both from mitochondria to cytosol and from cytosol to extracellular space, and cellular export of hemin, and heme. Xenobiotic transporter that may play an important role in the exclusion of xenobiotics from the brain. Appears to play a major role in the multidrug resistance phenotype of several cancer cell lines. Implicated in the efflux of numerous drugs and xenobiotics: mitoxantrone, the photosensitizer pheophorbide, camptothecin, methotrexate, azidothymidine (AZT), and the anthracyclines daunorubicin and doxorubicin.
Research Articles on ABCG2	**1.** 13-cis-retinoic acid, retinol and retinyl-acetate inhibited the Pgp and ABCG2 mediated substrate transport as well as the substrate stimulated ATPase activity of these transporters.
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