ABCG2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ABCG2, Polyclonal Antibody
Full Product Name	ABCG2 Rabbit pAb
Product Gene Name	anti-ABCG2 antibody
Product Synonym Gene Name	MARCH1; RNF171
Product Synonym Names	ABCG2; ABCP; BCRP; BCRP1; MXR; ATP-binding cassette sub-family G member 2; Breast cancer resistance protein; CDw338; Mitoxantrone resistance-associated protein; Placenta-specific ATP-binding cassette transporter; CD338
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Purity/Purification	Affinity Purified
OMIM	138900
3D Structure	ModBase 3D Structure for Q9UNQ0
Immunogen	Synthesized peptide derived from the internal region of human ABCG2.
Cellular Localization	Cell Membrane, Membrane, Mitochondrion
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ABCG2 antibody	Immunofluorescence (IF), Western Blot (WB), Immunohistochemistry (IHC) Paraffin, ELISA (EIA)
Application Notes for anti-ABCG2 antibody	IF: 1:50-200 WB: 1:500-1:2000 IHC-P: 1:100-1:300 ELISA: 1:10000
Related Product Information for anti-ABCG2 antibody	MBS8541859 is an antibody targeting ABCG2. Also known as ABCG2 Rabbit pAb. Reactive in Human. Host: Rabbit.
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.

ADDITIONAL DETAILS

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

NCBI GI #	67462103
NCBI GeneID	9429
NCBI Accession #	Q9UNQ0.3
UniProt Primary Accession #	Q9UNQ0
UniProt Related Accession #	Q9UNQ0
NCBI Official Full Name	ATP-binding cassette sub-family G member 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
Protein Family	ABC transporter G family
UniProt Gene Name	ABCG2
UniProt Synonym Gene Names	ABCP; BCRP; BCRP1; MXR
UniProt Entry Name	ABCG2_HUMAN
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	ABCG2: Xenobiotic transporter that may play an important role in the exclusion of xenobiotics from the brain. May be involved in brain-to-blood efflux. Appears to play a major role in the multidrug resistance phenotype of several cancer cell lines. When overexpressed, the transfected cells become resistant to mitoxantrone, daunorubicin and doxorubicin, display diminished intracellular accumulation of daunorubicin, and manifest an ATP- dependent increase in the efflux of rhodamine 123. Monomer or homodimer; disulfide-linked. Up-regulated in brain tumors. Highly expressed in placenta. Low expression in small intestine, liver and colon. Belongs to the ABC transporter superfamily. ABCG family. Eye pigment precursor importer (TC 3.A.1.204) subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Transporter; Transporter, iron; Membrane protein, multi-pass; Membrane protein, integral; Transporter, ABC family Chromosomal Location of Human Ortholog: 4q22 Cellular Component: nucleoplasm; mitochondrial membrane; integral to membrane; plasma membrane; nucleus Molecular Function: protein binding; protein homodimerization activity; ATPase activity, coupled to transmembrane movement of substances; transporter activity; heme transporter activity; xenobiotic-transporting ATPase activity; ATP binding Biological Process: response to drug; heme transport; urate metabolic process; transport; cellular iron ion homeostasis; xenobiotic transport; multidrug transport; transmembrane transport Disease: Blood Group, Junior System; Uric Acid Concentration, Serum, Quantitative Trait Locus 1
Research Articles on ABCG2	**1.** Higher levels of P-glycoprotein, multidrug resistance-associated protein 1, multidrug resistance-associated protein 2, and breast cancer resistance protein (BCRP/ABCG2) were correlated with a reduced efficacy of chemotherapy and poorer outcome in breast cancer patients.
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