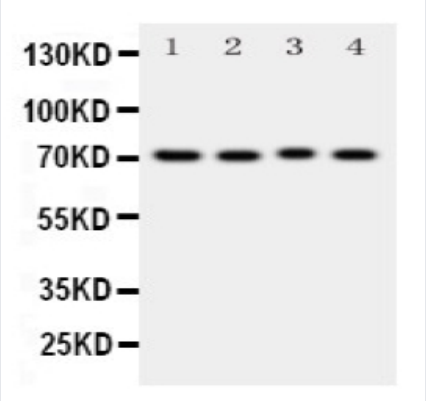
ABCG2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ABCG2, Polyclonal Antibody
Full Product Name	ABCG2 (Breast cancer resistance protein, CDw338, Mitoxantrone resistance-associated protein, Placenta-specific ATP-binding cassette transporter, CD338) (MaxLight 650)
Product Gene Name	anti-ABCG2 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse, Rat
Form/Format	Supplied as a liquid in PBS, pH 7.2. Labeled with MaxLight650.
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes mouse ABCG2. Species Crossreactivity: rat. Does not crossreact with other proteins.
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: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	72,978 Da
3D Structure	ModBase 3D Structure for Q7TMS5
Immunogen	Synthetic peptide corresponding to a sequence, aa152-167 KNHEKNERINTIIKEL, in the middle region of mouse ABCG2. UniProt Accession: Q7TMS5, different from the related rat sequence by one amino acid.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-ABCG2 antibody	Antibodies; Multi Drug Resistance (MDR)
Applications Tested/Suitable for anti-ABCG2 antibody	Western Blot (WB)
Application Notes for anti-ABCG2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-ABCG2 antibody	ABCG2 (Atp-binding cassette, subfamily g, member 2) also known as ABCP, BCRP or MRX, is a protein that in humans is encoded by the ABCG2 gene. The ABCG2 gene encodes a membrane transporter belonging to the ATP-binding cassette (ABC) superfamily of membrane transporters, which are involved in the trafficking of biologic molecules across cell membranes. The ABCG2 protein is also a high capacity transporter for uric acid excretion in the kidney, liver, and gut. The ABCG2 gene is mapped on 4q22.1. In vitro assays of isolated membrane preparations revealed a high-capacity, vanadate-sensitive ATPase activity associated with ABCG2 expression that was stimulated by compounds known to be transported by this protein. Ozvegy et al. (2001) concluded that ABCG2 is likely functioning as a homodimer or homooligomer in this expression system since it is unlikely that putative Sf9 transport partners would be overexpressed at similarly high levels. Abcg2 transports pheophorbide-a, which occurs in various plant-derived foods and food supplements and is highly efficient in limiting its uptake from ingested food. ABCG2 is a major factor in the concentrative transfer of drugs, carcinogens, and dietary toxins to the milk of mice, cows, and humans

Product References and Citations for anti-ABCG2 antibody	1. Jonker, J. W., et al., The breast cancer resistance protein BCRP (ABCG2) concentrates drugs and carcinogenic xenotoxins into milk. Nature Med. 11:127-129, 2005. 2. Matsuo, H., et al., Common defects of ABCG2, a high-capacity urate exporter, cause gout: a function-based genetic analysis in a Japanese population.Sci. Transl. Med. 1:5ra11, 2009. 3. Ozvegy, C., et al., Functional characterization of the human multidrug transporter, ABCG2, expressed in insect cells.Biochem. Biophys. Res. Commun. 285:111-117, 2001.
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	MBS6404091 is an antibody targeting ABCG2. Also known as ABCG2 (Breast cancer resistance protein, CDw338, Mitoxantrone resistance-associated protein, Placenta-specific ATP-binding cassette transporter, CD338) (MaxLight 650). Reactive in Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-ABCG2 antibody
Western Blot using 144108. All lanes: 144108 (0.5ug/ml) Lane 1: Rat Liver Tissue Lysate at 50ug Lane 2: Rat Spleen Tissue Lysate at 50ug Lane 3: Rat Kidney Tissue Lysate at 50ug Lane 4: Mouse Spleen Tissue Lysate at 50ug Predicted band size: 72kD Observed band size: 72kD

ADDITIONAL DETAILS

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

NCBI GI #	68052328
NCBI GeneID	26357
NCBI Accession #	Q7TMS5.1
UniProt Primary Accession #	Q7TMS5
UniProt Secondary Accession #	Q9R004; Q9Z1T0
UniProt Related Accession #	Q7TMS5
NCBI Official Full Name	ATP-binding cassette sub-family G member 2
NCBI Official Synonym Full Names	ATP-binding cassette, sub-family G (WHITE), member 2
NCBI Official Symbol	Abcg2
NCBI Official Synonym Symbols	MXR; ABCP; BCRP; MXR1; ABC15; Bcrp1; AI428558
UniProt Protein Name	ATP-binding cassette sub-family G member 2
UniProt Synonym Protein Names	Breast cancer resistance protein 1 homolog; Urate exporter; CD_antigen: CD338
Protein Family	ABC transporter G family
UniProt Gene Name	Abcg2
UniProt Synonym Gene Names	Abcp; Bcrp1

UniProt Entry Name	ABCG2_MOUSE
NCBI Protein Information	ATP-binding cassette sub-family G member 2; urate exporter; mitoxantrone resistance protein 1; breast cancer resistance protein 1 homolog
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