

Rabbit ABCG8 Polyclonal Antibody | anti-ABCG8 antibody

ABCG8 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326438	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

ABCG8; Polyclonal Antibody; ABCG8 Antibody; ABCG8_HUMAN; ATP binding cassette sub family G (WHITE) member 8 (sterolin 2); ATP binding cassette sub family G member 8; ATP binding cassette; sub family G (WHITE); member 8; ATP-binding cassette sub-family G member 8; GBD4; MGC142217; Sterolin 2; Sterolin-2; STSL; anti-ABCG8 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	ABCG8 antibody detects endogenous levels of total ABCG8
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	673
Applicable Applications for anti-ABCG8 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ABCG8
Subcellular Location	Membrane.
Tissue Specificity	Predominantly expressed in the liver (PubMed:11099417, PubMed:11452359). Low expression levels in the small intestine and colon (PubMed:11099417). Very low levels in other tissues, including brain, heart and spleen (PubMed:11452359).
Predicted Cross Reactivity	Bovine, Horse, Sheep, Rabbit, Dog, Chicken
Similarity	Bovine (91%), Horse (100%), Sheep (91%), Rabbit (91%), Dog (100%), Chicken (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA326438 staining HepG2 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)

Western blot analysis of extracts of A549, using ABCG8antibody. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA326438 at 1/100 staining Human liver cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample 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.

ADDITIONAL INFORMATION

Related Product Information for anti-ABCG8 antibody

Description: The protein encoded by this gene is a member of 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. The protein encoded by this gene functions to exclude non-cholesterol sterol entry at the intestinal level, promote excretion of cholesterol and sterols into bile, and to facilitate transport of sterols back into the intestinal lumen. It is expressed in a tissue-specific manner in the liver, intestine, and gallbladder. This gene is tandemly arrayed on chromosome 2, in a head-to-head orientation with family member ABCG5. Mutations in this gene may contribute to sterol accumulation and atherosclerosis, and have been observed in patients with sitosterolemia. [provided by RefSeq, Jul 2008]

Function: ABCG5 and ABCG8 form an obligate heterodimer that mediates Mg2+-and ATP-dependent sterol transport across the cell membrane. Plays an essential role in the selective transport of the dietary cholesterol in and out of the enterocytes and in the selective sterol excretion by the liver into bile (PubMed:11099417, PubMed:11452359, PubMed:27144356, PubMed:15054092). Required for normal sterol homeostasis (PubMed:11099417, PubMed:11452359, PubMed:15054092). The heterodimer with ABCG5 has ATPase activity (PubMed:16893193, PubMed:20210363, PubMed:27144356).

Subunit Structure: Heterodimer with ABCG8.

Post-translational Modifications: N-glycosylated.

Similarity: A functional Walker motif (consensus sequence G-X-X-G-X-G-K-[ST]-T) is expected to bind ATP. The essential Lys in this region is not conserved in ABCG8 (G-S-S-G-C-R-A-S) and is not required for transport activity mediated by the heterodimer with ABCG5. Belongs to the ABC transporter superfamily. ABCG family. Eye pigment precursor importer (TC 3.A.1.204) subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	11967971
NCBI GeneID	64241
NCBI Accession #	NP_071882.1
NCBI GenBank Nucleotide #	NM_022437.2
UniProt Accession #	Q9H221; Q53QN8
Molecular Weight	Observed: 76 kDa Predicted: 76 kDa
NCBI Official Full Name	ATP-binding cassette sub-family G member 8 isoform 1

NCBI Official Synonym Full Names	ATP binding cassette subfamily G member 8
NCBI Official Symbol	ABCG8
NCBI Official Synonym Symbols	GBD4; STSL
NCBI Protein Information	ATP-binding cassette sub-family G member 8
UniProt Protein Name	ATP-binding cassette sub-family G member 8
UniProt Gene Name	ABCG8

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/abcg8-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/326438>