Product datasheet

Anti-ABCG8 Antibody

Catalog Number: *A01482-1*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-ABCG8 Antibody
Gene Name	ABCG8
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, ICC/IF
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human ABCG8, different from the related mouse and rat sequences by twelve amino acids.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	76 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunocytochemistry/Immunofluorescence(ICC/IF):1:50-400

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

ATP-binding cassette sub-family G member 8 is a protein that in humans is encoded by the ABCG8 gene. 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.

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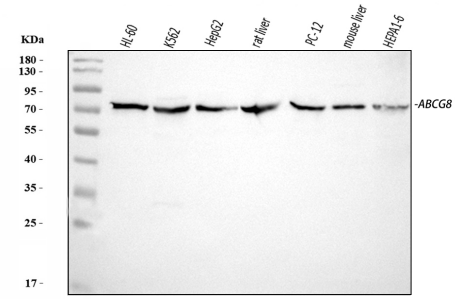
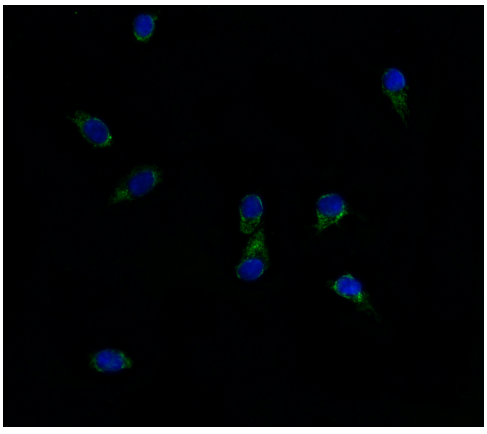
Reference

Anti-ABCG8 Antibody被引用在2文献中。

Selected Validation Data



Western blot analysis of ABCG8 using anti-ABCG8 antibody (A01482-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: HL-60 whole cell lysates,
Lane 2: K562 whole cell lysates,
Lane 3: HEPG2 whole cell lysates,
Lane 4: rat liver tissue lysates,
Lane 5: PC-12 whole cell lysates,
Lane 6: mouse liver tissue lysates,
Lane 7: HEPA1-6 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-ABCG8 antigen affinity purified polyclonal antibody (A01482-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for ABCG8 at approximately 76 kDa. The expected band size for ABCG8 is at 76 kDa.



ICC/IF analysis of ABCG8 using anti-ABCG8 antibody (A01482-1). ABCG8 was detected in an immunocytochemical section of HepG2 cells. The section was incubated with rabbit anti-ABCG8 Antibody (A01482-1) at a dilution of 1:100. Fluoro488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).

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