

Anti-ABCG1 Antibody

Catalog Number: PA1868

About ABCG1

ABCG1 (Atp-binding cassette, subfamily g, member 1) also known as ABC8, ABC TRANSPORTER 8 or WHITE, DROSOPHILA, HOMOLOG OF, is a protein that in humans is encoded by the ABCG1 gene. ABCG1 is a regulator of macrophage cholesterol and phospholipid transport. The protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. The ABCG1 gene is mapped on 21q22.3. This protein is a member of the White subfamily. It is involved in macrophage cholesterol and phospholipids transport, and may regulate cellular lipid homeostasis in other cell types. ABCG1 is induced in monocyte-derived macrophages during cholesterol influx mediated by acetylated low-density lipoprotein. Inhibition of ABCG1 protein expression using an antisense strategy resulted in reduced HDL3-dependent efflux of cholesterol and choline-phospholipids. In macrophages, silencing of GPS2 by RNA interference reduced ABCG1 expression and diminished ABCG1-mediated cholesterol efflux.

Overview

Product Name	Anti-ABCG1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-ABCG1 Antibody catalog # PA1868. Tested in WB applications. This antibody reacts with Human, Mouse, Rat.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P45844

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human ABCG1, identical to the related rat and mouse sequences.
Predicted Reactive Species	Hamster
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG

Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat</p>

Anti-ABCG1 Antibody (PA1868) Images



Anti-ABCG1 antibody, PA1868, Western blotting
All lanes: Anti ABCG1 (PA1868) at 0.5ug/ml
Lane 1: U87 Whole Cell Lysate at 40ug
Lane 2: SMMC Whole Cell Lysate at 40ug
Lane 3: HELA Whole Cell Lysate at 40ug
Lane 4: COLO320 Whole Cell Lysate at 40ug
Lane 5: MCF-7 Whole Cell Lysate at 40ug
Predicted bind size: 75KD
Observed bind size: 75KD

3 Publications Citing This Product

1. PubMed ID: 25334019, Shang W, Yu X, Wang H, Chen T, Fang Y, Yang X, Zhou P, Nie F, Zhou Q, Zhou J. Mol Med Rep. 2015 Jan;11(1):503-8. Doi: 10.3892/Mmr.2014.2731. Epub 2014 Oct 21. Fibroblast Growth Factor 21 Enhances Cholesterol Efflux In Thp-1 Macrophage-Derived Foam...
2. PubMed ID: 21418611, Yan N, Ding T, Dong J, Li Y, Wu M. Lipids Health Dis. 2011 Mar 21;10:46. Doi: 10.1186/1476-511X-10-46. Sphingomyelin Synthase Overexpression Increases Cholesterol Accumulation And Decreases Cholesterol Secretion In Liver Cells.
3. PubMed ID: 26781796, Overexpression of C35 in breast carcinomas is associated with tumor progression and lymphnode metastasis

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