

Anti-ABCG1 Antibody Picoband®

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

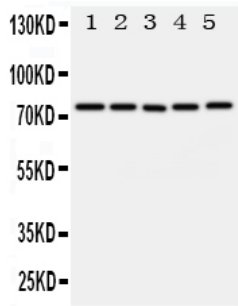
Product Name	Anti-ABCG1 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-ABCG1 Antibody catalog # PA1868. Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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.
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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	Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat

Anti-ABCG1 Antibody Picoband® (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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Anti-ABCG1 Antibody

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