

ABCG1 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP6529A

Product Information

Application WB, E
Primary Accession P45844
Other Accession Q64343

Reactivity Human, Mouse

Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Clone Names RB19678
Calculated MW 75592
Antigen Region 168-195

Additional Information

Gene ID 9619

Other Names ATP-binding cassette sub-family G member 1, ATP-binding cassette

transporter 8, White protein homolog, ABCG1, ABC8, WHT1

Target/Specificity This ABCG1 antibody is generated from rabbits immunized with a KLH

conjugated synthetic peptide between 168-195 amino acids from the

N-terminal region of human ABCG1.

Dilution WB~~1:1000 E~~Use at an assay dependent concentration.

Format Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This

antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation

followed by dialysis against PBS.

Storage Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions ABCG1 Antibody (N-term) is for research use only and not for use in

diagnostic or therapeutic procedures.

Protein Information

Name ABCG1 (HGNC:73)

Synonyms ABC8, WHT1

Function Catalyzes the efflux of phospholipids such as sphingomyelin, cholesterol

and its oxygenated derivatives like 7beta- hydroxycholesterol and this transport is coupled to hydrolysis of ATP (PubMed:17408620, PubMed:24576892). The lipid efflux is ALB-dependent (PubMed:16702602). Is an active component of the macrophage lipid export complex. Could also be involved in intracellular lipid transport processes. The role in cellular lipid homeostasis may not be limited to macrophages. Prevents cell death by transporting cytotoxic 7beta- hydroxycholesterol (PubMed:17408620).

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein. Golgi apparatus membrane; Multi-pass membrane protein. Cell membrane Note=Predominantly localized in the intracellular compartments mainly associated with the endoplasmic reticulum (ER) and Golgi membranes

Tissue Location

Expressed in several tissues. Expressed in macrophages; expression is increased in macrophages from patients with Tangier disease.

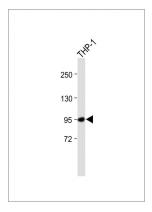
Background

ABCG1 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. It is involved in macrophage cholesterol and phospholipids transport, and may regulate cellular lipid homeostasis in other cell types.

References

Furuyama, S., J. Atheroscler. Thromb. 16 (3), 194-200 (2009) Stefulj, J., Circ. Res. 104 (5), 600-608 (2009) Mauerer, R., Exp. Mol. Med. 41 (2), 126-132 (2009)

Images



All lanes: Anti-ABCG1 Antibody (N-term) at 1:1000 dilution Lane 1: THP-1 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 95kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.