

Datasheet for ABIN3030065
anti-ABCG5 antibody (N-Term)

2 Images

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Overview

Quantity:	100 µg
Target:	ABCG5
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ABCG5 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS)

Product Details

Immunogen:	An amino acid sequence from the N-terminus of human ABCG5 (NGRALRREQFQDCFSY) was used as the immunogen for this ABCG5 antibody.
Isotype:	IgG
Purification:	Antigen affinity

Target Details

Target:	ABCG5
Alternative Name:	ABCG5 (ABCG5 Products)
Background:	ATP-binding cassette, subfamily G, member 5. also known as Sterolin 1, is a protein that in humans is encoded by the ABCG5 gene. The protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. This protein is a member of the White

Target Details

subfamily. It functions as a half-transporter to limit intestinal absorption and promote biliary excretion of sterols. The gene contains 13 exons and spans about 28 kb and is mapped on 2p21. It is expressed in a tissue-specific manner in the liver, colon, and intestine. This gene is tandemly arrayed on chromosome 2, in a head-to-head orientation with family member ABCG8. Mutations in this gene may contribute to sterol accumulation and atherosclerosis, and have been observed in patients with sitosterolemia. Small(2003)reviewed the role of ABC transporters in secretion of cholesterol from liver into bile, particularly the role of ABCG5/ABCG8. The ABCG5and ABCG8 genes are an example of closely neighboring genes in a head-to-head orientation that, when mutated, cause the same phenotype.

UniProt: [Q9H222](#)

Pathways: [Lipid Metabolism](#)

Application Details

Application Notes: The stated application concentrations are suggested starting amounts. Titration of the ABCG5 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 0.5-1 µg/mL,FACS: 1-3 µg/10⁶ cells

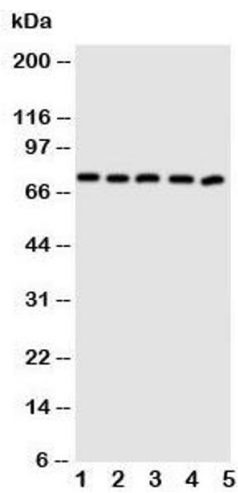
Restrictions: For Research Use only

Handling

Buffer: 0.5 mg/mL if reconstituted with 0.2 mL sterile DI water

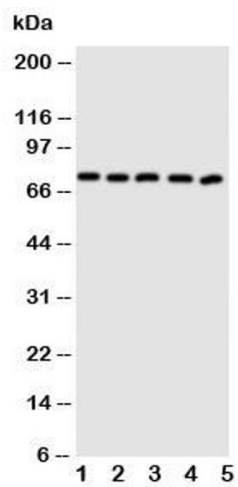
Storage: -20 °C

Storage Comment: After reconstitution, the ABCG5 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.



Western Blotting

Image 1. Western blot testing of ABCG5 antibody and Lane 1: MCF-7; 2: A549; 3: HT1080; 4: U87; 5: SKOV cell lysate. Predicted size ~73KD



Western Blotting

Image 2. Western blot testing of ABCG5 antibody and human lysate samples 1: MCF-7