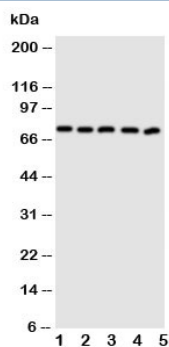


ABCG5 Antibody (R30970)

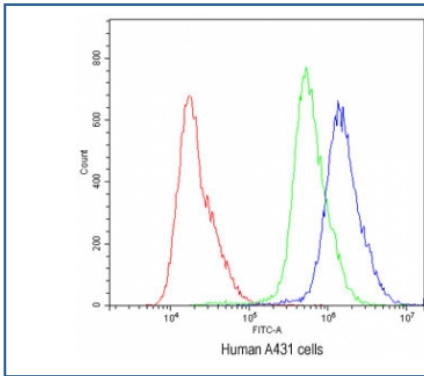
Catalog No.	Formulation	Size
R30970	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

[Bulk quote request](#)

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	Q9H222
Applications	Western blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/10 ⁶ cells
Limitations	This ABCG5 antibody is available for research use only.



Western blot testing of ABCG5 antibody and human lysate samples 1: MCF-7; 2: A549; 3: HT1080; 4: U-87 MG; 5: SKOV. Predicted molecular weight ~73 kDa.



Flow cytometry testing of human A431 cells with ABCG5 antibody at 1ug/10⁶ cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue=ABCG5 antibody.

Description

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 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 ABCG5 and ABCG8 genes are an example of closely neighboring genes in a head-to-head orientation that, when mutated, cause the same phenotype.

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.

Immunogen

An amino acid sequence from the N-terminus of human ABCG5 (NGRALRREQFQDCFSY) was used as the immunogen for this ABCG5 antibody.

Storage

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.