

Datasheet for ABIN6136382
anti-ABCG5 antibody (AA 350-450)



[Go to Product page](#)

2 Images

Overview

Quantity:	100 µL
Target:	ABCG5
Binding Specificity:	AA 350-450
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ABCG5 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 350-450 of human ABCG5 (NP_071881.1).
Sequence:	TLPMVPFKTK DSPGVFSKLG VLLRRVTRNL VRNKLAVITR LLQNLIMGLF LLFFVLRVRS NVLKGAIQDR VGLLYQFVGA TPYTGMLNAV NLFPVLRAVS D
Isotype:	IgG
Cross-Reactivity:	Human
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

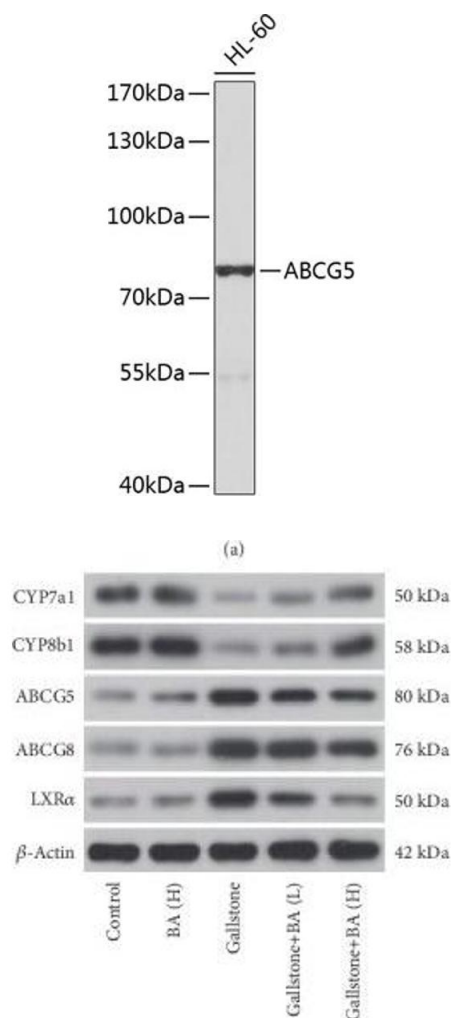
Target:	ABCG5
Alternative Name:	ABCG5 (ABCG5 Products)
Background:	<p>The protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the White subfamily. The protein encoded by this gene functions as a half-transporter to limit intestinal absorption and promote biliary excretion of sterols. 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</p> <p>sitosterolemia.,ABCG5,STSL,Cancer,Signal Transduction,Endocrine & Metabolism,Lipid Metabolism,Cholesterol Metabolism,Cardiovascular,Heart,Lipids,Cardiovascular diseases,Heart disease,ABCG5</p>
Molecular Weight:	28 kDa/72 kDa
Gene ID:	64240
UniProt:	Q9H222
Pathways:	Lipid Metabolism

Application Details

Application Notes:	WB,1:500 - 1:2000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.



Western Blotting

Image 1. Western blot analysis of extracts of HL-60 cells, using antibody (ABIN6134210, ABIN6136382, ABIN6136383 and ABIN6224696) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.

Western Blotting

Image 2. Lithogenic diet induced disorders of cholesterol synthesis and transport in liver. (a-c) The mRNA levels of cholesterol 7α-hydroxylase (CYP7a1) (a), sterol 12α-hydroxylase (CYP8b1) (b), and liver X receptor α (LXRα) (c) in the liver were detected by real-time PCR. (d) Western blot was used to measure the protein levels of CYP7a1, CYP8b1, adenosine triphosphate binding cassette (ABC)G5, ABCG8, and LXRα in the liver of mice that received a lithogenic diet or Baicalin administration. (e-i) Quantitative analysis of CYP7a1 (e), CYP8b1 (f), ABCG5 (g), ABCG8 (h), and LXRα (i) of immunoblotting bands in (d). (j) Immunohistochemistry staining was used for detection of LXRα expression in the liver (the scale bar represented 50µm). n = 6 (p < 0.05, p < 0.01, and p < 0.001). ns: no significance, BA(L): 50 mg/kg baicalin, BA(H): 100 mg/kg baicalin. - figure provided by CiteAb. Source: PMID32382260