

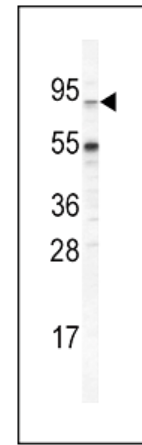
ABCG1 Antibody (Center)

ALTERNATE NAMES:	ABCG1; ABC8; WHT1; ATP-binding cassette sub-family G member 1; ATP-binding cassette transporter 8; White protein homolog
CATALOG #:	6705-100
AMOUNT:	100 µl
HOST/ISOTYPE:	Rabbit IgG
IMMUNOGEN:	This ABCG1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 359-387 amino acids from the central region of human ABCG1.
PURIFICATION:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
MOLECULAR WEIGHT:	~75.5 kDa
FORM:	Liquid
FORMULATION:	Supplied in PBS with 0.09% (W/V) sodium azide.
SPECIES REACTIVITY:	Human
STORAGE CONDITIONS:	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

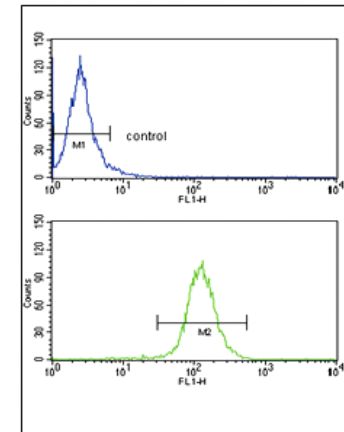
DESCRIPTION: ABCG1 (ATP-binding cassette sub-family G member 1), a transporter protein primarily involved in macrophage lipid homeostasis, localizes to intracellular compartments associated with ER /Golgi membranes, and its expression is highest in macrophage-rich tissue such as spleen, lung, and thymus as well as in brain. ABCG1 form heterodimers with heterologous ABCG partners and functional heterodimerization with ABCG4 has been of great interest because brain cells, mainly neurons and astrocytes, depict high expression of both transporters. ABCG1 is involved in the export of a variety of lipids (in conjunction with ABCA1) including cholesterol and phospholipids from macrophages to HDL. Macrophage lipid export is the first step in the reverse cholesterol transport pathway that exports cholesterol from peripheral cells to circulating lipoproteins for eventual excretion via liver. Cholesterol export to lipoprotein acceptors is compromised in macrophage foam cells, one of the early hallmarks of atherosclerosis. Moreover, ABCG1 plays role in T cells/inflammation, brain lipid homeostasis and its expression increases in macrophages of Tangier disease patients.

APPLICATION: Western blot: ~1:1000, FACS: ~1:10–1:50, IHC: ~1:50-1:100.

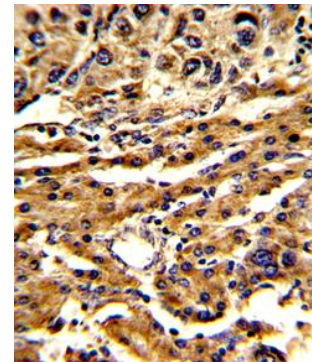
Note: This information is only intended as a guide. The optimal dilutions must be determined by the user.



Western blot analysis of ABCG1 Antibody (Center) (Cat # 6705-100) in 293 cell line lysates (35 µg/lane). ABCG1 (arrow) was detected using the purified pAb.



ABCG1 Antibody (Center) (Cat. # 6705-100) flow cytometry analysis of HepG2 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with ABCG1 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

RELATED PRODUCTS:

- ABCG1 Antibody (NT) (Cat. No. 6704-100)

FOR RESEARCH USE ONLY! Not to be used on humans.