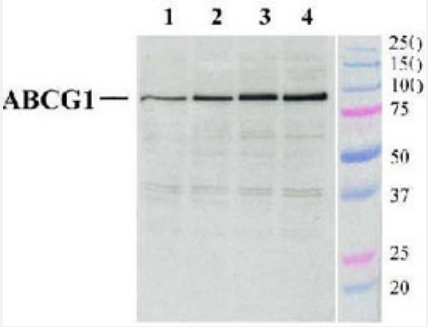
ABCG1 polyclonal antibody

Catalog # PAB12503 Size 100 uL

Applications



Western Blot (Cell lysate)

Detection of ABCG1 in mouse peritoneal macrophages (40 ug) using ABCG1 polyclonal antibody (Cat # PAB12503). Lane 1 : positive ABCG1 control, lane 2 : 10 uM 22- (R) -hydrocholesterol treated macrophages, Lane 3 : 100 nM T0901713 (LXRa ligand) treated macrophages, and Lane 4 : 500 nM T091713 (LXRa ligand) treated macrophages.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of ABCG1.
Immunogen	A synthetic peptide corresponding to amino acids 300-400 of human ABCG1.
Host	Rabbit
Reactivity	Human, Mouse
Specificity	The specificity of this antibody is for ABCG1.
Form	Liquid
Recommend Usage	Western Blot (1:500) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris-citrate/phosphate buffer, pH 7.0-8.0 (0.09% sodium azide)
Storage Instruction	Store at 4°C. Do not freeze.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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Applications

- Western Blot (Cell lysate)

  Detection of ABCG1 in mouse peritoneal macrophages (40 ug) using ABCG1 polyclonal antibody (Cat # PAB12503). Lane 1 : positive ABCG1 control, lane 2 : 10 uM 22- (R) -hydrocholesterol treated macrophages, Lane 3 : 100 nM T0901713 (LXRa ligand) treated macrophages, and Lane 4 : 500 nM T091713 (LXRa ligand) treated macrophages.

- Immunohistochemistry

Gene Info — ABCG1

Entrez GeneID	9619
Protein Accession#	P45844
Gene Name	ABCG1
Gene Alias	ABC8, MGC34313, WHITE1
Gene Description	ATP-binding cassette, sub-family G (WHITE), member 1
Omim ID	603076
Gene Ontology	Hyperlink
Gene Summary	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 membrane s. 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 cho lesterol and phospholipids transport, and may regulate cellular lipid homeostasis in other cell type s. Six alternative splice variants have been identified. [provided by RefSeq
Other Designations	ABC transporter 8|ATP-binding cassette sub-family G member 1|ATP-binding cassette transport er 8|ATP-binding cassette transporter member 1 of subfamily G|OTTHUMP00000109322|homolo g of Drosophila white|white protein homolog (ATP-binding cassette transporter

Publication Reference

- LXR-induced reverse cholesterol transport in human airway smooth muscle is mediated exclusively by ABCA1.

  Delvecchio CJ, Bilan P, Nair P, Capone JP.

  American Journal of Physiology. Lung Cellular and Molecular Physiology 2008 Nov; 295(5):L949.

  Application: WB-Tr, Human, hASM cells

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- ABCG1 influences the brain cholesterol biosynthetic pathway but does not affect amyloid precursor protein or apolipoprotein E metabolism in vivo.

  Burgess BL, Parkinson PF, Racke MM, Hirsch-Reinshagen V, Fan J, Wong C, Stukas S, Theroux L, Chan JY, Donkin J, Wilkinson A, Balik D, Christie B, Poirier J, Lutjohann D, Demattos RB, Wellington CL.

  Journal of Lipid Research 2008 Jun; 49(6):1254.

  Application: WB-Ti, Mouse, Mouse brain

- The cholesterol transporter ABCG1 modulates the subcellular distribution and proteolytic processing of beta-amyloid precursor protein.

  Tansley GH, Burgess BL, Bryan MT, Su Y, Hirsch-Reinshagen V, Pearce J, Chan JY, Wilkinson A, Evans J, Naus KE, McIsaac S, Bromley K, Song W, Yang HC, Wang N, DeMattos RB, Wellington CL.

  Journal of Lipid Research 2007 May; 48(5):1022.

  Application: WB-Tr, Human, HEK 293 cells

- Different cellular traffic of LDL-cholesterol and acetylated LDL-cholesterol leads to distinct reverse cholesterol transport pathways.

  Wang MD, Kiss RS, Franklin V, McBride HM, Whitman SC, Marcel YL.

  Journal of Lipid Research 2007 Mar; 48(3):633.

  Application: WB, Mouse, Mouse macrophages

- Decreased atherosclerosis in low-density lipoprotein receptor knockout mice transplanted with Abcg1-/- bone marrow.

  Ranalletta M, Wang N, Han S, Yvan-Charvet L, Welch C, Tall AR.

  Arteriosclerosis, Thrombosis, and Vascular Biology 2006 Oct; 26(10):2308.

  Application: WB, Mouse, Mouse macrophages

Pathway

- ABC transporters

Disease

- Alzheimer disease
- Atherosclerosis
- Calcinosis
- Cardiovascular Diseases

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- Coronary Artery Disease
- Diabetes Mellitus
- Edema
- Hyperlipidemias
- Kidney Failure
- Personality Inventory

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