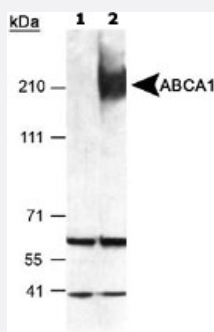


ABCA1 polyclonal antibody

Catalog # PAB12504 Size 100 uL

Applications



Western Blot (Cell lysate)

Detection of ABCA1 in mouse peritoneal macrophages using ABCA1 polyclonal antibody (Cat # PAB12504). Lane 1 : T09 uninduced lysate, Lane 2 : T09 induced lysate.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of ABCA1.
Immunogen	A synthetic peptide corresponding to amino acids 1100-1300 of human ABCA1.
Host	Rabbit
Theoretical MW (kDa)	220
Reactivity	Hamster, Human, Mouse, Rat
Specificity	This antibody is specific to ABCA1.
Form	Liquid
Purification	Immunogen affinity purification
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.

Recommend Usage	Flow Cytometry (1:400) Immunocytochemistry (1:100) Immunofluorescence (1:100) Immunohistochemistry (1:200) Immunoprecipitation (1:10-1:500) Western Blot (1:500) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.05% sodium azide).
Storage Instruction	Store at 4°C for short term. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Detection of ABCA1 in mouse peritoneal macrophages using ABCA1 polyclonal antibody (Cat # PAB12504). Lane 1 : T09 uninduced lysate, Lane 2 : T09 induced lysate.

- Flow Cytometry

Gene Info — ABCA1

Entrez GeneID	19
Protein Accession#	O95477
Gene Name	ABCA1
Gene Alias	ABC-1, ABC1, CERP, FLJ14958, HDLDT1, MGC164864, MGC165011, TGD
Gene Description	ATP-binding cassette, sub-family A (ABC1), member 1
Omim ID	143890 205400 600046 604091
Gene Ontology	Hyperlink

Gene Summary

The membrane-associated 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 intracellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TA P, MRP, ALD, OABP, GCN20, White). This protein is a member of the ABC1 subfamily. Members of the ABC1 subfamily comprise the only major ABC subfamily found exclusively in multicellular eukaryotes. With cholesterol as its substrate, this protein functions as a cholesterol efflux pump in the cellular lipid removal pathway. Mutations in this gene have been associated with Tangier's disease and familial high-density lipoprotein deficiency. [provided by RefSeq]

Other Designations

ATP binding cassette transporter 1|ATP-binding cassette 1|ATP-binding cassette, sub-family A member 1|OTTHUMP00000021833|cholesterol efflux regulatory protein|membrane-bound

Publication Reference

- [Efflux inhibition by H2S confers sensitivity to doxorubicin-induced cell death in liver cancer cells.](#)

Stokes E, Shuang T, Zhang Y, Pei Y, Fu M, Guo B, Parissenti A, Wu L, Wang R, Yang G.

Life Sciences 2018 Nov; 213:116.

Application: WB-Ce, Human, HepG2 cell lysates

- [Fibroblast growth factor-19, a novel factor that inhibits hepatic fatty acid synthesis.](#)

Bhatnagar S, Damron HA, Hillgartner FB.

The Journal of Biological Chemistry 2009 Feb; 284(15):10023.

- [Suppression of 2,3-oxidosqualene cyclase by high fat diet contributes to liver X receptor-alpha-mediated improvement of hepatic lipid profile.](#)

Dang H, Liu Y, Pang W, Li C, Wang N, Shyy JY, Zhu Y.

The Journal of Biological Chemistry 2009 Jan; 284(10):6218.

- [ABCA1-mediated cholesterol efflux generates microparticles in addition to HDL through processes governed by membrane rigidity.](#)

Nandi S, Ma L, Denis M, Karwatsky J, Li Z, Jiang XC, Zha X.

Journal of Lipid Research 2009 Mar; 50(3):456.

Application: IF, Mouse, BHK cells

- [Serum, but not monocyte macrophage foam cells derived from low HDL-C subjects, displays reduced cholesterol efflux capacity.](#)

Nakanishi S, Vikstedt R, Soderlund S, Lee-Rueckert M, Hiukka A, Ehnholm C, Muiilu M, Metso J, Naukkarinen J, Palotie L, Kovanen PT, Jauhiainen M, Taskinen MR.

Journal of Lipid Research 2009 Feb; 50(2):183.

- [Endoglin \(CD105\) expression is regulated by the liver X receptor alpha \(NR1H3\) in human trophoblast cell line JAR.](#)

Henry-Berger J, Mouzat K, Baron S, Bernabeu C, Marceau G, Saru JP, Sapin V, Lobaccaro JM, Caira F.

Biology of Reproduction 2008 Jun; 78(6):968.

Application: WB-Ce, Human, JAR cells

Pathway

- [ABC transporters](#)

Disease

- [Alzheimer disease](#)
- [Angina Pectoris](#)
- [Arteriosclerosis](#)
- [Atherosclerosis](#)
- [Atrial Fibrillation](#)
- [Brain Ischemia](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Calcinosis](#)
- [Cardiovascular Diseases](#)
- [Carotid Artery Diseases](#)
- [Cerebral Hemorrhage](#)
- [Cerebral Infarction](#)
- [Cerebrovascular Accident](#)
- [Cerebrovascular Disorders](#)
- [Cleft Lip](#)
- [Cleft Palate](#)

- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Coronary Stenosis](#)
- [Dementia](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Diseases in Twins](#)
- [Ductus Arteriosus](#)
- [Dyslipidemias](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Glomerulonephritis](#)
- [HIV Infections](#)
- [Hypercholesterolemia](#)
- [Hyperlipidemias](#)
- [Hyperlipoproteinemia Type II](#)
- [Hypertension](#)
- [Hypertriglyceridemia](#)
- [Hypoalphalipoproteinemias](#)
- [Hypolipoproteinemias](#)
- [Infant](#)
- [Inflammation](#)
- [Insulin Resistance](#)

- [Intracranial Arteriosclerosis](#)
- [Intracranial Thrombosis](#)
- [Kidney Failure](#)
- [Lung Neoplasms](#)
- [Macular Degeneration](#)
- [Metabolic Syndrome X](#)
- [Myocardial Infarction](#)
- [Myocardial Ischemia](#)
- [Neoplasms](#)
- [Nephrotic Syndrome](#)
- [Obesity](#)
- [Obstetric Labor](#)
- [Osteoporosis](#)
- [Overweight](#)
- [Pulmonary Disease](#)
- [Radiodermatitis](#)
- [Recurrence](#)
- [Renal Insufficiency](#)
- [Schizophrenia](#)
- [Stroke](#)
- [Tangier disease](#)
- [Thrombosis](#)
- [Tobacco Use Disorder](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)