ABCA1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ABCA1, Polyclonal Antibody
Full Product Name	ABCA1 Polyclonal Antibody
Product Gene Name	anti-ABCA1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	254kDa
OMIM	205400
3D Structure	ModBase 3D Structure for O95477
Immunogen	Recombinant protein of human ABCA1 (NP_005493.2).
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ABCA1 antibody	Western Blot (WB)
Application Notes for anti-ABCA1 antibody	WB: 1:500-1:2000
Related Product Information for anti-ABCA1 antibody	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/TAP, 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 cholesteral 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.
Other Notes	Small volumes of anti-ABCA1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ABCA1 purchase	MBS8573292 is an antibody targeting ABCA1. Also known as ABCA1 Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ABCA1. It may not necessarily be applicable to this product.

NCBI GI #	21536376
NCBI GeneID	19
NCBI Accession #	NP_005493.2

UniProt Primary Accession #	O95477
UniProt Related Accession #	O95477
GenBank Nucleotide #	NP_005493.2
NCBI Official Full Name	phospholipid-transporting ATPase ABCA1
NCBI Official Synonym Full Names	ATP binding cassette subfamily A member 1
NCBI Official Symbol	ABCA1
NCBI Official Synonym Symbols	TGD; ABC1; CERP; ABC-1; HDLDT1; HPALP1; HDLCQTL13
UniProt Protein Name	ATP-binding cassette sub-family A member 1
UniProt Synonym Protein Names	ATP-binding cassette transporter 1; ABC-1; ATP-binding cassette 1; Cholesterol efflux regulatory protein
Protein Family	ABC transporter A family
UniProt Gene Name	ABCA1
UniProt Synonym Gene Names	ABC1; CERP; ABC-1
UniProt Entry Name	ABCA1_HUMAN
NCBI Protein Information	phospholipid-transporting ATPase ABCA1
NCBI Summary for ABCA1	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/TAP, 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 cholesteral 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, Jul 2008]

UniProt Comments for ABCA1	ABCA1: an ATP-binding cassette (ABC) transporter that regulates cholesterol homeostasis and insulin secretion in beta-cells, and protects against cardiovascular disease. Inactivation of ABCA1 in beta-cells markedly impairs glucose tolerance and insulin secretion in mice. Rosiglitazone, an activator of the peroxisome proliferator-activated receptor-gamma, upregulates ABCA1 in beta-cells. ABCA1 expression in beta-cells is required for the beneficial effects of rosiglitazone on glucose tolerance. Mediates the transport of cholesterol and phospholipids from cells to HDL apolipoproteins, modulating HDL levels and atherogenesis. Induced by bacterial lipopolysaccharides (LPS) and repressed by ZNF202. Phosphorylation on Ser-2054 regulates phospholipid efflux. Unsaturated fatty acids destabilize ABCA1 by activating a PKC-delta pathway that phosphorylates ABCA1 serines. Defects in ABCA1 are a cause of high density lipoprotein deficiencies. Protein type: Membrane protein, integral; Vesicle; Transporter; Membrane protein, multi-pass; Transporter, ABC family Chromosomal Location of Human Ortholog: 9q31.1 Cellular Component: Golgi apparatus; integral to plasma membrane; perinuclear region of cytoplasm; endocytic vesicle; plasma membrane; phagocytic vesicle; external side of plasma membrane; lipid raft Molecular Function: apolipoprotein A-I receptor activity; ATPase activity; cholesterol binding; apolipoprotein binding; ATPase binding; apolipoprotein A-I binding; small GTPase binding; protein binding; syntaxin binding; phospholipid transporter activity; cholesterol transporter activity; phospholipid binding; anion transmembrane transporter activity; ATP binding; receptor binding Biological Process: response to drug; cholesterol metabolic process; regulation of Cdc42 protein signal transduction; lipoprotein metabolic process; intracellular cholesterol transport; cholesterol efflux; cellular lipid metabolic process; endosome transport; phospholipid translocation; G-protein coupled receptor protein signaling pathway; cholesterol homeostasis; reverse cholesterol transport; phospholipid efflux; platelet dense granule organization and biogenesis; lysosome organization and biogenesis; response to low density lipoprotein stimulus; positive regulation of cAMP biosynthetic process; protein amino acid lipidation; interleukin-1 beta secretion; phagocytosis, engulfment; response to nutrient; phospholipid homeostasis; peptide secretion Disease: Hypoalphalipoproteinemia, Primary; Tangier Disease; Hypercholesterolemia, Familial
Research Articles on ABCA1	**1.** ABCA1 R230C T allele gene mutation is a protective in decreasing the risk of diabetes in Caucasians and ABCA1 C69T gene mutation markedly influences the level of lipid metabolism in diabetic patients.
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