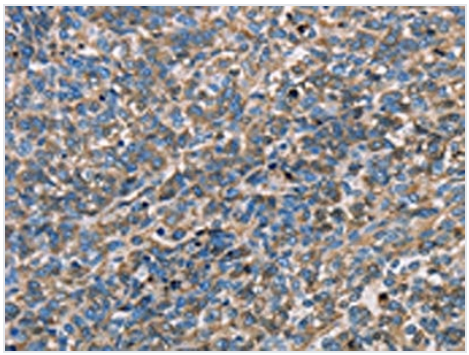
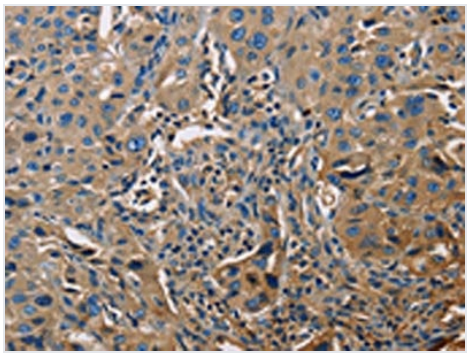
APOA1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	APOA1, Polyclonal Antibody
Full Product Name	APOA1 Antibody
Product Gene Name	anti-APOA1 antibody
Product Synonym Names	apolipoprotein A-I
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid; In Phosphate Buffered Saline, pH 7.4, 0.05% NaN3, and 40% Glycerol
Purity/Purification	Antigen Affinity Purification
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	30,778 Da
Chromosome Location	Chromosome: 11; NC_000011.9 (116706469..116708338, complement). Location: 11q23-q24
OMIM	105200
3D Structure	ModBase 3D Structure for P02647
Immunogen	Fusion protein of human APOA1
Immunogen Species	Human
Conjugate	Non-conjugated
Product Categories/Family for anti-APOA1 antibody	Cardiovascular
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-APOA1 antibody	ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-APOA1 antibody	ELISA: 1:2000-1:5000 IHC: 1:25-1:100
Related Product Information for anti-APOA1 antibody	MBS7123123 is an antibody targeting APOA1. Also known as APOA1 Antibody. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-APOA1 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.



Immunohistochemistry (IHC)-Paraffin of anti-APOA1 antibody
The image on the left is immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using MBS7123123(APOA1 Antibody) at dilution 1/25, on the right is treated with fusion protein. (Original magnification: ×200)



Immunohistochemistry (IHC)-Paraffin of anti-APOA1 antibody
The image on the left is immunohistochemistry of paraffin-embedded Human lung cancer tissue using MBS7123123(APOA1 Antibody) at dilution 1/25, on the right is treated with fusion protein. (Original magnification: ×200)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for APOA1. It may not necessarily be applicable to this product.

NCBI GI #	553183
NCBI GeneID	335
NCBI Accession #	AAA51746.1
UniProt Primary Accession #	P02647
UniProt Secondary Accession #	Q6LDN9; Q6Q785; Q9UCS8; Q9UCT8; A8K866
UniProt Related Accession #	P02647
NCBI Official Full Name	APOA1, partial
NCBI Official Synonym Full Names	apolipoprotein A-I
NCBI Official Symbol	APOA1
UniProt Protein Name	Apolipoprotein A-I
UniProt Synonym Protein Names	Apolipoprotein A1Cleaved into the following chain:Truncated apolipoprotein A-I; Alternative name(s):; Apolipoprotein A-I(1-242)
Protein Family	Apolipoprotein
UniProt Gene Name	APOA1
UniProt Synonym Gene Names	Apo-AI; ApoA-I
UniProt Entry Name	APOA1_HUMAN
NCBI Protein Information	apolipoprotein A-I; apo-AI
NCBI Summary for APOA1	This gene encodes apolipoprotein A-I, which is the major protein component of high density lipoprotein (HDL) in plasma. The protein promotes cholesterol efflux from tissues to the liver for excretion, and it is a cofactor for lecithin cholesterolacyltransferase (LCAT) which is responsible for the formation of most plasma cholesteryl esters. This gene is closely linked with two other apolipoprotein genes on chromosome 11. Defects in this gene are associated with HDL deficiencies, including Tangier disease, and with systemic non-neuropathic amyloidosis. [provided by RefSeq, Jul 2008]

UniProt Comments for APOA1	APOA1: Participates in the reverse transport of cholesterol from tissues to the liver for excretion by promoting cholesterol efflux from tissues and by acting as a cofactor for the lecithin cholesterol acyltransferase (LCAT). As part of the SPAP complex, activates spermatozoa motility. Interacts with APOA1BP and CLU. Component of a sperm activating protein complex (SPAP), consisting of APOA1, an immunoglobulin heavy chain, an immunoglobulin light chain and albumin. Interacts with NDRG1. Major protein of plasma HDL, also found in chylomicrons. Synthesized in the liver and small intestine. The oxidized form at Met-110 and Met-136 is increased in individuals with increased risk for coronary artery disease, such as in carrier of the eNOSa/b genotype and exposure to cigarette smoking. It is also present in increased levels in aortic lesions relative to native ApoA-I and increased levels are seen with increasing severity of disease. Belongs to the apolipoprotein A1/A4/E family. Protein type: Motility/polarity/chemotaxis; Endoplasmic reticulum; Secreted, signal peptide; Secreted; Lipid-binding; Vesicle; Cell development/differentiation Chromosomal Location of Human Ortholog: 11q23-q24 Cellular Component: extracellular space; chylomicron; cell surface; endocytic vesicle; endoplasmic reticulum lumen; early endosome; plasma membrane; extracellular region; cytoplasmic vesicle; cytosol; nucleus; vesicle Molecular Function: identical protein binding; protein binding; enzyme binding; phospholipid transporter activity; lipase inhibitor activity; chemorepellent activity; beta-amyloid binding; cholesterol transporter activity; cholesterol binding; phospholipid binding; phosphatidylcholine binding; high-density lipoprotein binding; apolipoprotein A-I receptor binding; apolipoprotein receptor binding Biological Process: phototransduction, visible light; negative chemotaxis; negative regulation of lipase activity; axon regeneration in the peripheral nervous system; sequestering of lipid; negative regulation of interleukin-1 beta secretion; regulation of cholesterol absorption; transforming growth factor beta receptor signaling pathway; positive regulation of stress fiber formation; response to drug; cholesterol metabolic process; platelet activation; organ regeneration; regulation of Cdc42 protein signal transduction; adrenal gland development; positive regulation of hydrolase activity; positive regulation of Rho protein signal transduction; lipoprotein metabolic process; positive regulation of transferase activity; vitamin transport; cholesterol biosynthetic process; negative regulation of cytokine secretion during immune response; cholesterol homeostasis; lipoprotein biosynthetic process; response to estrogen stimulus; peptidyl-methionine modification; phosphatidylcholine biosynthetic process; positive regulation of lipoprotein lipase activity; blood vessel endothelial cell migration; cellular lipid metabolic process; platelet degranulation; phospholipid efflux; retinoid metabolic process; transmembrane transport; response to nutrient; phospholipid homeostasis; integrin-mediated signaling pathway; receptor-mediated endocytosis; positive regulation of fatty acid biosynthetic process; regulation of protein amino acid phosphorylation; cholesterol transport; protein amino acid oxidation; protein stabilization; negative regulation of heterotypic cell-cell adhesion; neurite regeneration; cholesterol efflux; glucocorticoid metabolic process; G-protein coupled receptor protein signaling pathway; reverse cholesterol transport; negative regulation of inflammatory response; endothelial cell proliferation; blood coagulation Disease: Hypoalphalipoproteinemia, Primary; Amyloidosis, Familial Visceral
Research Articles on APOA1	**1.** The uremia-induced downregulation of hepatic apolipoprotein A-I production is post-transcriptional.
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