Apolipoprotein Ai (APOA1) Antibody – Goat Polyclonal

PRODUCT OVERVIEW

Product Name	Apolipoprotein AI (Apoa1), Polyclonal Antibody
Full Product Name	Apolipoprotein AI (Apo AI) (MaxLight 650)
Product Gene Name	anti-Apoa1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Goat
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes mouse Apolipoprotein AI (Apo AI). Minimum cross-reactivity to Apo AII, Apo B, Apo CI, Apo CII, Apo CIII, Apo E and Apo J. Non-specific crossreaction with other mouse serum proteins is negligible.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	30,616 Da
3D Structure	ModBase 3D Structure for Q00623
Immunogen	Apo AI isolated from mouse plasma.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-Apoa1 antibody	Antibodies; Lipoproteins
Applications Tested/Suitable for anti-Apoa1 antibody	Western Blot (WB), FLISA
Application Notes for anti-Apoa1 antibody	WB: 1:250-1:500 Applications are based on unconjugated antibody. FLISA: 1:2500-1:5000. Assayed against 1ug of Apolipoprotein in a standard FLISA using (IgG, H&L (HRP)) RbxGt and ABTS for 30 minutes at RT.
Related Product Information for anti-Apoa1 antibody	MBS6463609 is an antibody targeting Apoa1. Also known as Apolipoprotein AI (Apo AI) (MaxLight 650). Reactive in Mouse. Host: Goat.
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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Apoa1. It may not necessarily be applicable to this product.

NCBI GI #	160333304

NCBI GeneID	11806
NCBI Accession #	NP_033822.2
UniProt Primary Accession #	Q00623
UniProt Secondary Accession #	O08855; O09042; Q8BPD5
UniProt Related Accession #	Q00623
GenBank Nucleotide #	NM_009692.4
NCBI Official Full Name	apolipoprotein A-I preproprotein
NCBI Official Synonym Full Names	apolipoprotein A-I
NCBI Official Symbol	Apoa1
NCBI Official Synonym Symbols	Sep2; Alp-1; Ltw-1; Sep-1; Sep-2; Apoa-1; Brp-14; Lvtw-1; apo-AI; apoA-I
UniProt Protein Name	Apolipoprotein A-I
UniProt Synonym Protein Names	Apolipoprotein A1
Protein Family	Apolipoprotein
UniProt Gene Name	Apoa1
UniProt Synonym Gene Names	Apo-AI; ApoA-I; ProapoA-I
UniProt Entry Name	APOA1_MOUSE
NCBI Protein Information	apolipoprotein A-I

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: Cell development/differentiation; Endoplasmic reticulum; Lipid-binding; Motility/polarity/chemotaxis; Secreted; Secreted, signal peptide; Vesicle Cellular Component: cell surface; chylomicron; cytoplasmic vesicle; endocytic vesicle; extracellular region; extracellular space; nucleus Molecular Function: apolipoprotein A-I receptor binding; apolipoprotein receptor binding; beta-amyloid binding; chemorepellent activity; cholesterol binding; cholesterol transporter activity; enzyme binding; high-density lipoprotein binding; identical protein binding; lipase inhibitor activity; lipid binding; lipid transporter activity; phosphatidylcholine binding; phospholipid binding; phospholipid transporter activity; protein binding Biological Process: adrenal gland development; axon regeneration; blood vessel endothelial cell migration; cholesterol biosynthetic process; cholesterol efflux; cholesterol homeostasis; cholesterol metabolic process; cholesterol transport; endothelial cell proliferation; G-protein coupled receptor protein signaling pathway; glucocorticoid metabolic process; integrin-mediated signaling pathway; lipoprotein biosynthetic process; negative chemotaxis; negative regulation of cytokine secretion during immune response; negative regulation of heterotypic cell-cell adhesion; negative regulation of hydrolase activity; negative regulation of inflammatory response; negative regulation of interleukin-1 beta secretion; negative regulation of lipase activity; organ regeneration; peptidyl-methionine modification; phosphatidylcholine biosynthetic process; phosphatidylcholine metabolic process; phospholipid efflux; phospholipid homeostasis; phospholipid metabolic process; phospholipid transport; positive regulation of fatty acid biosynthetic process; positive regulation of hydrolase activity; positive regulation of lipoprotein lipase activity; positive regulation of Rho protein signal transduction; positive regulation of stress fiber formation; positive regulation of transferase activity; protein amino acid oxidation; protein localization; protein stabilization; regulation of Cdc42 protein signal transduction; regulation of cholesterol absorption; regulation of protein amino acid phosphorylation; reverse cholesterol transport; sequestering of lipid; triacylglycerol catabolic process; vitamin transport
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