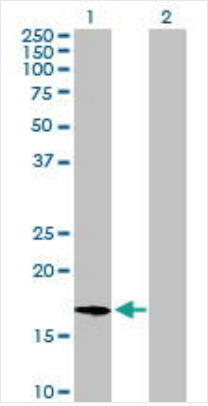
APOA2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	APOA2, Polyclonal Antibody
Full Product Name	APOA2 (Apolipoprotein A-II, Apo-AII, ApoA-II, Apolipoprotein A2) (Biotin)
Product Gene Name	anti-APOA2 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human APOA2.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	11,175 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (161192083..161193418, complement). Location: 1q23.3
OMIM	107670
3D Structure	ModBase 3D Structure for P02652
Immunogen	Full length human APOA2, aa1-100 (NP_001634.1).
Immunogen Sequence	MKLLAATVLLLTICSLEGALVRRQAKEPCVESLVSQYFQTVTDYGKDLMEKVKSPELQAEAKSYFEKSKEQLTPLIKKAGTELVNFLSYFVELGTQPATQ
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-APOA2 antibody	Antibodies; Lipoproteins
Applications Tested/Suitable for anti-APOA2 antibody	Western Blot (WB)
Application Notes for anti-APOA2 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-APOA2 antibody	Apolipoprotein A2 (ApoA2) is a major protein component of serum HDL. It is produced by the liver and is involved in cholesteryl ester formation and cholesterol transport from tissues to the liver. Polymorphisms of ApoA2 are associated with disorders of cholesterol and fatty acid metabolism. ApoA2 can form disulfide-linked 17kD homodimers and heterodimers with other apolipoproteins.
Other Notes	Small volumes of anti-APOA2 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 APOA2 purchase	MBS6370036 is an antibody targeting APOA2. Also known as APOA2 (Apolipoprotein A-II, Apo-AII, ApoA-II, Apolipoprotein A2) (Biotin). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-APOA2 antibody
Western Blot analysis of APOA2 expression in transfected 293T cell line by APOA2 polyclonal antibody. Lane 1: APOA2 transfected lysate (11.2kD). Lane 2: Non-transfected lysate.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for APOA2. It may not necessarily be applicable to this product.

NCBI GI #	4502149
NCBI GeneID	336
NCBI Accession #	NP_001634.1
UniProt Primary Accession #	P02652
UniProt Secondary Accession #	B2R524
UniProt Related Accession #	P02652
GenBank Nucleotide #	NM_001643
NCBI Official Full Name	apolipoprotein A-II preproprotein
NCBI Official Synonym Full Names	apolipoprotein A-II
NCBI Official Symbol	APOA2
NCBI Official Synonym Symbols	apoAII; Apo-AII; ApoA-II
UniProt Protein Name	Apolipoprotein A-II
UniProt Synonym Protein Names	Apolipoprotein A2Cleaved into the following chain:Truncated apolipoprotein A-II; Alternative name(s):; Apolipoprotein A-II(1-76)
Protein Family	Apolipoprotein
UniProt Gene Name	APOA2
UniProt Synonym Gene Names	Apo-AII; ApoA-II

UniProt Entry Name	APOA2_HUMAN
NCBI Protein Information	apolipoprotein A-II; apolipoprotein A2
NCBI Summary for APOA2	This gene encodes apolipoprotein (apo-) A-II, which is the second most abundant protein of the high density lipoprotein particles. The protein is found in plasma as a monomer, homodimer, or heterodimer with apolipoprotein D. Defects in this gene may result in apolipoprotein A-II deficiency or hypercholesterolemia. [provided by RefSeq, Jul 2008]
UniProt Comments for APOA2	APOA2: May stabilize HDL (high density lipoprotein) structure by its association with lipids, and affect the HDL metabolism. Belongs to the apolipoprotein A2 family. Protein type: Endoplasmic reticulum; Secreted, signal peptide; Secreted; Lipid-binding Chromosomal Location of Human Ortholog: 1q23.3 Cellular Component: chylomicron; endoplasmic reticulum lumen; early endosome; extracellular region; cytosol Molecular Function: lipid transporter activity; protein binding; protein homodimerization activity; lipase inhibitor activity; protein heterodimerization activity; cholesterol transporter activity; cholesterol binding; phospholipid binding; phosphatidylcholine binding; lipid binding; high-density lipoprotein binding; apolipoprotein receptor binding Biological Process: positive regulation of catalytic activity; phototransduction, visible light; viral reproduction; protein folding; negative regulation of cholesterol transport; response to glucocorticoid stimulus; regulation of protein stability; diacylglycerol catabolic process; positive regulation of lipid catabolic process; cellular lipid metabolic process; negative regulation of lipase activity; negative regulation of lipid catabolic process; regulation of cholesterol absorption; phospholipid efflux; response to glucose stimulus; retinoid metabolic process; response to drug; cholesterol metabolic process; organ regeneration; protein amino acid oxidation; phospholipid catabolic process; positive regulation of interleukin-8 biosynthetic process; cholesterol efflux; lipoprotein metabolic process; negative regulation of cytokine secretion during immune response; cholesterol homeostasis; triacylglycerol metabolic process; reverse cholesterol transport; response to estrogen stimulus; peptidyl-methionine modification; phosphatidylcholine biosynthetic process; acute inflammatory response Disease: Hypercholesterolemia, Familial
Research Articles on APOA2	**1.** Clinical studies demonstrate that apoA-II is a strong predictor of risk for CVD. There is no evidence, however, that selective therapeutic modification of apoA-II impacts on atherosclerosis and clinical outcomes.[review]
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