Apolipoprotein C1 (APOC1) Antibody – Guinea Pig Polyclonal

PRODUCT OVERVIEW

Product Name	Apolipoprotein C1 (APOC1), Polyclonal Antibody
Full Product Name	FITC-Linked Polyclonal Antibody to Apolipoprotein C1 (APOC1)
Product Gene Name	anti-APOC1 antibody
Clonality	Polyclonal
Host	Guinea Pig
Species Reactivity	Rabbit
Form/Format	Liquid
Purity/Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Concentration	500ug/ml (lot specific)
Specificity	The antibody is a cavia polyclonal antibody raised against APOC1. It has been selected for its ability to recognize APOC1 in immunohistochemical staining and western blotting.
Preparation and Storage	Store at 4 degree C for frequent use. Aliquot and store at -20 degree C for 12 months. Avoid repeated freeze/thaw cycles. The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Matching Pairs	Unconjugated Antibody: APOC1 (MBS2027742) FITC Conjugated Antibody: APOC1 (MBS2106621)
OMIM	107710
3D Structure	ModBase 3D Structure for P02654
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Conjugation	FITC
Cross Reactivity	Rabbit
Product Categories/Family for anti-APOC1 antibody	Metabolic pathway
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-APOC1 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunoprecipitation (IP)
Related Product Information for anti-APOC1 antibody	MBS2106621 is an antibody targeting APOC1. Also known as FITC-Linked Polyclonal Antibody to Apolipoprotein C1 (APOC1). Reactive in Rabbit. Host: Guinea Pig.
Other Notes	Small volumes of anti-APOC1 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 APOC1. It may not necessarily be applicable to this product.

NCBI GI #	114016
NCBI GeneID	341
NCBI Accession #	P02654.1
UniProt Primary Accession #	P02654
UniProt Related Accession #	P02654
NCBI Official Full Name	Apolipoprotein C-I
NCBI Official Synonym Full Names	apolipoprotein C1
NCBI Official Symbol	APOC1
NCBI Official Synonym Symbols	Apo-CI; ApoC-I; apo-CIB; apoC-IB
UniProt Protein Name	Apolipoprotein C-I
UniProt Synonym Protein Names	Apolipoprotein C1
Protein Family	Apolipoprotein
UniProt Gene Name	APOC1
UniProt Synonym Gene Names	APOC1B; Apo-CIB; ApoC-IB; Apo-CIB'; ApoC-IB'
UniProt Entry Name	APOC1_HUMAN
NCBI Protein Information	apolipoprotein C-I
NCBI Summary for APOC1	This gene encodes a member of the apolipoprotein C1 family. This gene is expressed primarily in the liver, and it is activated when monocytes differentiate into macrophages. The encoded protein plays a central role in high density lipoprotein (HDL) and very low density lipoprotein (VLDL) metabolism. This protein has also been shown to inhibit cholesteryl ester transfer protein in plasma. A pseudogene of this gene is located 4 kb downstream in the same orientation, on the same chromosome. This gene is mapped to chromosome 19, where it resides within a apolipoprotein gene cluster. Alternative splicing and the use of alternative promoters results in multiple transcript variants. [provided by RefSeq, Sep 2016]
UniProt Comments for APOC1	APOC1: Appears to modulate the interaction of APOE with beta- migrating VLDL and inhibit binding of beta-VLDL to the LDL receptor-related protein. Binds free fatty acids and reduces their intracellular esterification. Belongs to the apolipoprotein C1 family. Protein type: Lipid-binding; Inhibitor; Secreted, signal peptide; Secreted; Endoplasmic reticulum Chromosomal Location of Human Ortholog: 19q13.2 Cellular Component: chylomicron; endoplasmic reticulum Molecular Function: phospholipase inhibitor activity; lipase inhibitor activity; phosphatidylcholine binding; fatty acid binding Biological Process: positive regulation of catalytic activity; cholesterol metabolic process; negative regulation of cholesterol transport; cholesterol efflux; lipoprotein metabolic process; triacylglycerol metabolic process; phospholipid efflux; negative regulation of lipid catabolic process; negative regulation of receptor-mediated endocytosis; negative regulation of lipoprotein lipase activity; lipid metabolic process; regulation of cholesterol transport; negative regulation of lipid metabolic process; negative regulation of fatty acid biosynthetic process
Research Articles on APOC1	**1.** PPARgamma knockdown resulted in increased levels of TOMM40, APOE and APOC1 -mRNAs, showing the strongest impact on APOE transcript levels.
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