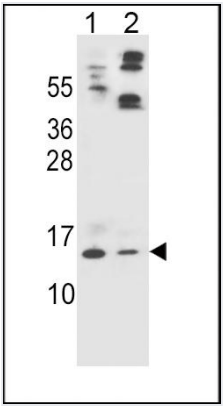
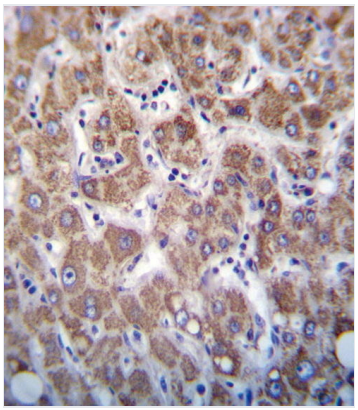
APOC2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	APOC2, Polyclonal Antibody
Full Product Name	APOC2, ID (Apolipoprotein C-II, Apo-CII, ApoC-II, APC2) (MaxLight 490)
Product Gene Name	anti-APOC2 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 MaxLight490.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human APOC2.
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: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	11kDa
OMIM	207750
3D Structure	ModBase 3D Structure for P02655
Immunogen	Synthetic peptide selected from the center region of human APOC2 (KLH).
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-APOC2 antibody	Antibodies; Lipoproteins
Applications Tested/Suitable for anti-APOC2 antibody	Immunohistochemistry (IHC), FLISA
Application Notes for anti-APOC2 antibody	IHC: 1:10-1:50 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-APOC2 antibody	MBS6463726 is an antibody targeting APOC2. Also known as APOC2, ID (Apolipoprotein C-II, Apo-CII, ApoC-II, APC2) (MaxLight 490). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-APOC2 antibody	1. Bahri, R., Lipids Health Dis 7, 46 (2008). 2. Hegele, R.A., Dis. Markers 9(2), 73-80 (1991). 3. Bengtsson-Olivecrona, G., Eur. J. Biochem. 192(2), 515-521 (1990).
Other Notes	Small volumes of anti-APOC2 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.



Western Blot (WB) of anti-APOC2 antibody
APOC2 Antibody (Center) western blot analysis in HL-60(lane 1),A549(lane 2) cell line lysates (35ug/lane).This demonstrates the APOC2 antibody detected the APOC2 protein (arrow).



Immunohistochemistry (IHC) of anti-APOC2 antibody
APOC2 Antibody (Center) immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of APOC2 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for APOC2. It may not necessarily be applicable to this product.

NCBI GI #	32130518
NCBI GeneID	344
NCBI Accession #	NP_000474
UniProt Primary Accession #	P02655
UniProt Related Accession #	P02655
GenBank Nucleotide #	NM_000483.4
NCBI Official Full Name	apolipoprotein C-II
NCBI Official Synonym Full Names	apolipoprotein C2
NCBI Official Symbol	APOC2
NCBI Official Synonym Symbols	APO-CII; APOC-II
UniProt Protein Name	Apolipoprotein C-II
UniProt Synonym Protein Names	Apolipoprotein C2
Protein Family	Apolipoprotein
UniProt Gene Name	APOC2
UniProt Synonym Gene Names	APC2; Apo-CII; ApoC-II
UniProt Entry Name	APOC2_HUMAN
NCBI Protein Information	apolipoprotein C-II
NCBI Summary for APOC2	This gene encodes a lipid-binding protein belonging to the apolipoprotein gene family. The protein is secreted in plasma where it is a component of very low density lipoprotein. This protein activates the enzyme lipoprotein lipase, which hydrolyzes triglycerides and thus provides free fatty acids for cells. Mutations in this gene cause hyperlipoproteinemia type IB, characterized by hypertriglyceridemia, xanthomas, and increased risk of pancreatitis and early atherosclerosis. This gene is present in a cluster with other related apolipoprotein genes on chromosome 19. Naturally occurring read-through transcription exists between this gene and the neighboring upstream apolipoprotein C-IV (APOC4) gene. [provided by RefSeq, Mar 2011]

UniProt Comments for APOC2	APOC2: Component of the very low density lipoprotein (VLDL) fraction in plasma, and is an activator of several triacylglycerol lipases. The association of APOC2 with plasma chylomicrons, VLDL, and HDL is reversible, a function of the secretion and catabolism of triglyceride-rich lipoproteins, and changes rapidly. Defects in APOC2 are the cause of hyperlipoproteinemia type 1B (HLPP1B). It is an autosomal recessive trait characterized by hypertriglyceridemia, xanthomas, and increased risk of pancreatitis and early atherosclerosis. Belongs to the apolipoprotein C2 family. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 19q13.2 Cellular Component: extracellular space; chylomicron; early endosome; extracellular region Molecular Function: protein homodimerization activity; phospholipase binding; lipase inhibitor activity; lipid binding; phospholipase activator activity Biological Process: positive regulation of fatty acid biosynthetic process; phototransduction, visible light; cholesterol homeostasis; reverse cholesterol transport; phospholipid efflux; negative regulation of cholesterol transport; negative regulation of catalytic activity; positive regulation of lipoprotein lipase activity; negative regulation of receptor-mediated endocytosis; lipoprotein metabolic process; cholesterol efflux; negative regulation of lipid metabolic process; retinoid metabolic process; lipid catabolic process Disease: Apolipoprotein C-ii Deficiency
Research Articles on APOC2	**1.** Results from this exploratory analysis suggest that regulatory element methylation levels within the larger TOMM40-APOE-APOC2 gene region correlate with AD-related biomarkers and TOMM40 or APOE gene expression in AD.
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