APOB Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	APOB, Polyclonal Antibody
Full Product Name	APOB Antibody, HRP conjugated
Product Gene Name	anti-APOB antibody
Product Synonym Names	Apolipoprotein B-100; Apo B-100Cleaved into the following chain:Apolipoprotein B-48; Apo B-48; APOB
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Purity/Purification	>95%, Protein G Purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: APOB (MBS1495245) HRP Conjugated Antibody: APOB (MBS1494171)
Molecular Weight	515,605 Da
OMIM	107730
3D Structure	ModBase 3D Structure for P04114
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Conjugate	HRP
Immunogen	Recombinant human Apolipoprotein B-100 protein
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-11795 / sc-11797 / sc-25542
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-APOB antibody	ELISA (EIA)
Related Product Information for anti-APOB antibody	Apolipoprotein B is a major protein constituent of chylomicrons (apo B-48), LDL (apo B-100) and VLDL (apo B-100). Apo B-100 functions as a recognition signal for the cellular binding and internalization of LDL particles by the apoB/E receptor.
Other Notes	Small volumes of anti-APOB 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 APOB purchase	MBS1494171 is an antibody targeting APOB. Also known as APOB Antibody, HRP conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	105990532

NCBI GeneID	338
NCBI Accession #	NP_000375.2
UniProt Primary Accession #	P04114
UniProt Secondary Accession #	O00502; P78479; P78480; P78481; Q13779; Q13785; Q13786; Q13787; Q13788; Q4ZG63; Q53QC8
UniProt Related Accession #	P04114
GenBank Nucleotide #	NM_000384.2
NCBI Official Full Name	apolipoprotein B-100
NCBI Official Synonym Full Names	apolipoprotein B
NCBI Official Symbol	APOB
NCBI Official Synonym Symbols	FLDB; LDLCQ4; apoB-48; apoB-100
UniProt Protein Name	Apolipoprotein B-100
Protein Family	Apolipoprotein
UniProt Gene Name	APOB
UniProt Synonym Gene Names	Apo B-100; Apo B-48
UniProt Entry Name	APOB_HUMAN
NCBI Protein Information	apolipoprotein B-100
NCBI Summary for APOB	This gene product is the main apolipoprotein of chylomicrons and low density lipoproteins. It occurs in plasma as two main isoforms, apoB-48 and apoB-100: the former is synthesized exclusively in the gut and the latter in the liver. The intestinal and the hepatic forms of apoB are encoded by a single gene from a single, very long mRNA. The two isoforms share a common N-terminal sequence. The shorter apoB-48 protein is produced after RNA editing of the apoB-100 transcript at residue 2180 (CAA->UAA), resulting in the creation of a stop codon, and early translation termination. Mutations in this gene or its regulatory region cause hypobetalipoproteinemia, normotriglyceridemic hypobetalipoproteinemia, and hypercholesterolemia due to ligand-defective apoB, diseases affecting plasma cholesterol and apoB levels. [provided by RefSeq, Jul 2008]

UniProt Comments for APOB	APOB: Apolipoprotein B is a major protein constituent of chylomicrons (apo B-48), LDL (apo B-100) and VLDL (apo B-100). Apo B-100 functions as a recognition signal for the cellular binding and internalization of LDL particles by the apoB/E receptor. Defects in APOB are a cause of familial hypobetalipoproteinemia type 1 (FHBL1). A disorder characterized by highly reduced plasma concentrations of low density lipoproteins, and dietary fat malabsorption. Clinical presentation may vary from no symptoms to severe gastrointestinal and neurological dysfunction similar to abetalipoproteinemia. Defects in APOB are a cause of familial ligand-defective apolipoprotein B-100 (FDB). FDB is a dominantly inherited disorder of lipoprotein metabolism leading to hypercholesterolemia and increased proneness to coronary artery disease (CAD). The plasma cholesterol levels are dramatically elevated due to impaired clearance of LDL particles by defective APOB/E receptors. Defects in APOB associated with defects in other genes (polygenic) can contribute to hypocholesterolemia. Protein type: Carrier; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 2p24-p23 Cellular Component: actin cytoskeleton; cell soma; chylomicron; cytoplasm; cytosol; early endosome; endoplasmic reticulum lumen; endoplasmic reticulum membrane; endosome membrane; extracellular region; extracellular space; Golgi apparatus; intracellular membrane-bound organelle; plasma membrane Molecular Function: cholesterol transporter activity; heparin binding; low-density lipoprotein receptor binding; phospholipid binding; protein binding Biological Process: artery morphogenesis; blood coagulation; cholesterol efflux; cholesterol homeostasis; cholesterol metabolic process; cholesterol transport; fat-soluble vitamin metabolic process; fertilization; in utero embryonic development; leukocyte migration; lipoprotein biosynthetic process; lipoprotein catabolic process; lipoprotein metabolic process; lipoprotein transport; nervous system development; phototransduction, visible light; post-embryonic development; receptor-mediated endocytosis; regulation of cholesterol biosynthetic process; response to carbohydrate stimulus; response to lipopolysaccharide; response to selenium ion; response to virus; retinoid metabolic process; sperm motility; spermatogenesis; triacylglycerol catabolic process; triacylglycerol mobilization; vitamin metabolic process Disease: Hypercholesterolemia, Autosomal Dominant, Type B; Hypobetalipoproteinemia, Familial, 1
Research Articles on APOB	**1.** Discordance between apoB and LDL-PNMR in routine clinical practice is more widespread than currently recognized and may be associated with insulin resistance
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