

Mouse monoclonal antibody to Human APOB.

CABT-26570MH Mouse(APOB)

Lot. No. (See product label)

PRODUCT INFORMATION

Product Overview	Mouse monoclonal antibody to Human APOB.
Antigen Description	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.
specificity	CABT-26570MH has specificity for apolipoprotein B from human serum/plasma. No crossreactivity is seen with human apolipoprotein A-1.
Target	APOB
Immunogen	Full length native LDL (purified) (Human).
Host	Mouse
Isotype	IgG1
species	Human
Clone	0H4
Purification	Protein G purified
Applications	ELISA
Sequence similarities	Contains 1 vitellogenin domain.
Light chain type	kappa
Cellular localization	Secreted.

PACKAGING

Format	Liquid
Concentration	1.000 mg/ml
Buffer	Preservative: 15mM Sodium AzideConstituents: 0.05M Sodium chloride, 0.01M PBS, pH 7.4
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

ANTIGEN GENE INFORMATION

Gene Name	APOB apolipoprotein B (including Ag(x) antigen) [Homo sapiens]
Official Symbol	APOB
Synonyms	APOB; apolipoprotein B (including Ag(x) antigen); apolipoprotein B-100; Apo B 100; Apo B; Apo B-100; Apo B-48; ApoB 100; ApoB 48; ApoB; APOB protein; APOB_HUMAN; Apolipoprotein B 100; Apolipoprotein B 48; Apolipoprotein B; Apolipoprotein B-48; FLDB; apoB-48; apoB-100; apo B-100; mutant Apo B 100; OTTHUMP00000115994; apolipoprotein B48; FLDB; LDLQC4;

GeneID	338
mRNA Refseq	NM_000384
Protein Refseq	NP_000375
UniProt ID	P04114
Chromosome Location	2p24-p23
Pathway	Cell surface interactions at the vascular wall, organism-specific biosystem; Chylomicron-mediated lipid transport, organism-specific biosystem; FOXA1 transcription factor network, organism-specific biosystem; Fat digestion and absorption, organism-specific biosystem; Fat digestion and absorption, conserved biosystem; Hemostasis, organism-specific biosystem; LDL-mediated lipid transport, organism-specific biosystem;
Function	cholesterol transporter activity; enzyme binding; heparin binding; lipid transporter activity; low-density lipoprotein particle receptor binding; phospholipid binding; protein heterodimerization activity;

REFERENCES

1. The interaction between ubiquitin C-terminal hydrolase 37 and glucose-regulated protein 78 in hepatocellular carcinoma. Fang Y, et al. Mol Cell Biochem, 2011 Jul 29.
2. Familial hypobetalipoproteinemia in a hospital survey: genetics, metabolism and non-alcoholic fatty liver disease. Gutiérrez-Cirlos C, et al. Ann Hepatol, 2011 Apr-Jun.
3. Immuno-electron cryo-microscopy imaging reveals a looped topology of apoB at the surface of human LDL. Liu Y, et al. J Lipid Res, 2011 Jun.