



# Anti-APOB monoclonal antibody, clone 7H7 (DCABH-10552)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Antigen Description</b>	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.
----------------------------	---

<b>Immunogen</b>	Recombinant protein corresponding to human APOB.
<b>Isotype</b>	IgG1
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	7H7
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	ELISA
<b>Format</b>	Liquid
<b>Buffer</b>	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN3 as a preservative
<b>Preservative</b>	0.095 % NaN3

<b>Storage</b>	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
----------------	---

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">APOB apolipoprotein B (including Ag(x) antigen) [ Homo sapiens ]</a>
<b>Official Symbol</b>	APOB
<b>Synonyms</b>	APOB; apolipoprotein B (including Ag(x) antigen); apolipoprotein B-100; apoB-48; apoB-100; apo B-100; mutant Apo B 100; apolipoprotein B48; FLDB; LDLCQ4;
<b>Entrez Gene ID</b>	<a href="#">338</a>
<b>Protein Refseq</b>	<a href="#">NP_000375</a>
<b>UniProt ID</b>	<a href="#">P04114</a>
<b>Chromosome Location</b>	2p24-p23
<b>Pathway</b>	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;
<b>Function</b>	cholesterol transporter activity; enzyme binding; heparin binding; lipid transporter activity; low-density lipoprotein particle receptor binding; phospholipid binding; protein heterodimerization activity;