

Recombinant Human APOB, His-tagged

Cat. No. APOB-27149TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 1406-1606 of Human Apolipoprotein B, fused to a His tag at N-terminal end, 31kDa.
Species	Human
Source	E.coli
ProteinLength	1406-1606 a.a.
Description	<p>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.</p>
Conjugation	HIS
Form	Liquid

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Storage buffer	Preservative: None Constituents: PBS
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequence Similarities	Contains 1 vitellogenin domain.

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;
Gene ID	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;

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Function

cholesterol transporter activity; enzyme binding; heparin binding; lipid transporter activity; low-density lipoprotein particle receptor binding;

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