

Native Human APOB

Cat. No. APOB-26875TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full length native Apolipoprotein B purified from Human Plasma, Low Density Lipoprotein, predicted MW 516 kDa.
Species	Human
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.
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 50% Sodium chloride, 50mM Sodium carbonate, 10mM Sodium Deoxycholate, pH 10
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw

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	cycles.
Sequences of amino acids	Purified by column chromatography Single arc by IEP against whole Human serum.
Sequence Similarities	Contains 1 vitellogenin domain.
Full Length	Full L.
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

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absorption, organism-specific biosystem; Fat digestion and absorption, conserved biosystem;

Function

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

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