Recombinant Human APOB protein, GST-tagged

Cat. No. APOB-128H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human APOB(28 a.a. - 127 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	28-127 a.a.
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	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	36.74 kDa

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AA Sequence	EEEMLENVSLVCPKDATRFKHLRKYTYNYEAESSSGVPGTADSRSATRINCKVELEV PQLCSFILKTSQCTLKEV YGFNPEGKALLKKTKNSEEFAAAMS
Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

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; apoB-48; apoB-100; apo B-100; mutant Apo B 100; apolipoprotein B48; FLDB; LDLCQ4;
Gene ID	338
mRNA Refseq	NM_000384
Protein Refseq	NP_000375
MIM	
UniProt ID	P04114
Chromosome Location	2p24-p23

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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;

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