Native Human Apolipoprotein B (including Ag(x) antigen)

Cat. No. APOB-613H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native human APOBwas expressed in human plasma.Itsmolecular weight is 550000 Dalton.
Species	Human
Source	Human Plasma
Description	APOB is thedominant protein constituent of LDL. The concentration of Apo B in normalplasma is 90 mg per 100 ml. APOB is thought to stabilize lipid emulsions,serve as a cofactor and modulator of enzymatic reactions, manage export oflipids out of cells and direct lipids to target organs. APOB levels arepositively correlated with the risk of coronary disease. Apo B levels may bea more sensitive predictor of cardiovascular risk than LDL levels and do notinvolve fasting for accurate measurement. Two forms of Apo B exist: Apo B-100and Apo B-48. The first is found in VLDL and LDL and is produced by theliver. The second is found in chylomicrons and originates in the intestine.Prepared from fresh, non-frozen plasma shown to be non reactive for HbsAG,anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA approvedtests. Add deionized water to original volume, aliquot and freeze unusedportion.
Form	Lyophilized powderin 0.01 M Sodium Deoxycholate, 0.05 M Sodium Carbonate, 0.05 M.
Concentration	Lyophilized

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MolecularWeight	550 kDa
Purity	> 95 percent pureby SDS-PAGE
Storage	When stored at -80°Cproduct is stable for 3 years from date of delivery. Avoid repeatedfreeze-thaw cycles.
OfficialSymbol	APOB

GENE INFORMATION

Gene Name	APOB apolipoprotein B (includingAg(x) antigen) [Homo sapiens]
Synonyms	APOB; apolipoproteinB (including Ag(x) antigen); FLDB; LDLCQ4; apolipoprotein B-100; apoB-48;apoB-100; apo B-100; mutant Apo B 100; apolipoprotein B48; ApolipoproteinB-100; OTTHUMP00000115994; Apo B-48
Gene ID	338
mRNA Refseq	NM_000384
Protein Refseq	NP_000375
MIM	107730
UniProt ID	P04114
Chromosome Location	2p24-p23
Pathway	Cellsurface interactions at the vascular wall; Chylomicron-mediated lipidtransport; FOXA1 transcription factor network; Fat digestion and absorption;Formation of

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	Platelet plug; LDL-mediated lipid transport; Lipoproteinmetabolism; Vitamin digestion and absorption; Platelet Activation; amb2Integrin signaling
Function	cholesteroltransporter activity; enzyme binding; heparin binding; lipid transporteractivity; low-density lipoprotein particle receptor binding; phospholipidbinding; protein heterodimerization activity

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