

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

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

SPECIFICATION

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|-------------------------|--|
| Product Overview | Native human APOB was expressed in human plasma. Its molecular weight is 550000 Dalton. |
| Species | Human |
| Source | Human Plasma |
| Description | <p>APOB is the dominant protein constituent of LDL. The concentration of Apo B in normal plasma is 90 mg per 100 ml. APOB is thought to stabilize lipid emulsions, serve as a cofactor and modulator of enzymatic reactions, manage export of lipids out of cells and direct lipids to target organs. APOB levels are positively correlated with the risk of coronary disease. Apo B levels may be a more sensitive predictor of cardiovascular risk than LDL levels and do not involve fasting for accurate measurement. Two forms of Apo B exist: Apo B-100 and Apo B-48. The first is found in VLDL and LDL and is produced by the liver. 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 approved tests. Add deionized water to original volume, aliquot and freeze unused portion.</p> |
| Form | Lyophilized powder in 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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