

Product datasheet for BA054

Apolipoprotein B / Apo B Human Protein

Product data:

Product Type:	Native Proteins
Description:	Apolipoprotein B / Apo B human protein, 0.5 mg
Species:	Human
Protein Source:	Plasma
Concentration:	lot specific
Purity:	>95% Column chromatography. single arc by IEP against whole human serum.
Buffer:	Presentation State: Purified State: Lyophilized purified fraction(>95% pure by SDS-PAGE). Buffer System: 50 mM Na ₂ CO ₃ , pH 10.0, 50 mM NaCl containing 10 mM Sodium Deoxycholate.
Reconstitution Method:	Restore with 258 µl distilled water.
Preparation:	Lyophilized purified fraction(>95% pure by SDS-PAGE).
Protein Description:	Purified human Apo-B
Note:	Caution: All human source materials have tested negative for HIV 1, HIV 2, anti-HCV, anti-HBc antibodies and HBsAg. No test guarantees a product to be non-infectious. Therefore, all material derived from human fluids or tissues should be considered as potentially infectious.
Storage:	Store the antigen at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<u>NP_000375</u>
Locus ID:	338
Cytogenetics:	2p24.1
Synonyms:	ApoB, Apo-B, ApoB100, ApoB-100



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Summary:

This gene product is the main apolipoprotein of chylomicrons and low density lipoproteins (LDL), and is the ligand for the LDL receptor. 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. [provided by RefSeq, Dec 2019]

Protein Families:

Druggable Genome, Transmembrane