

Product datasheet for **BA1030**

Apolipoprotein B / Apo B (APOB 100) Human Protein

Product data:

Product Type:	Native Proteins
Description:	Apolipoprotein B / Apo B (APOB 100) human protein, 1 mg
Species:	Human
Protein Source:	Plasma
Concentration:	lot specific
Purity:	Method of Purification: 1. Ultracentrifugation at d 1.03-1.05 2. Delipidation with Diethyl Ether/Ethanol (3/1) 3. Gel filtration over Sephacryl S-200.
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 10mM Tris Buffered Saline, 10mM Sodium Decyl Sulfate, pH 7.4 Preservative: None
Preparation:	Liquid purified protein
Protein Description:	Human Apolipoprotein B-100 (Apo B-100). Devoid of Apo(a), Apo C, and Apo E proteins. Cross-reacts with anti-LDL.
Note:	Caution: All human source materials have tested negative for HIV 1, HIV 2, HCV antibodies Syphilis, HIV-1 antigen 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 undiluted at 2-8°C. DO NOT FREEZE!
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_000375
Locus ID:	338
Cytogenetics:	2p24.1
Synonyms:	apoB-48; apoB-100; FCHL2; FLDB; LDLCQ4



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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