APOB (Human) ELISA Kit

Catalog # KA1028 Size 1 Kit

Specification

Product Description	APOB (Human) ELISA Kit is a sandwich enzyme immunoassay for the quantitative measurement of human APOB.
Suitable Sample	Cell Culture Supernatants, Cell Lysate, CSF, Plasma, Serum
Sample Volume	50 uL
Label	Peroxidase-conjugated
Detection Method	Colorimetric
Assay Type	Quantitative
Calibration Range	3.906 to 250 ng/mL
Reactivity	Human
Regulation Status	For research use only (RUO)
Storage Instruction	Store components of the kit at 4°C or -20°C as described in the protocol.

Applications

- Quantification

Gene Info — APOB

Entrez GeneID	338
Gene Name	APOB
Gene Alias	FLDB

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Gene Description	apolipoprotein B (including Ag(x) antigen)
Omim ID	107730 144010
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq
Other Designations	OTTHUMP00000115994|apoB-100|apoB-48|apolipoprotein B|apolipoprotein B48

Publication Reference

- Intestinal and Hepatic Uptake of Dietary Peroxidized Lipids and Their Decomposition Products, and Their Subsequent Effects on Apolipoprotein A1 and Paraoxonase1.

  Xueting Jiang, Pragney Deme, Rajat Gupta, Dmitry Litvinov, Kathryn Burge, Sampath Parthasarathy, Chandrakala Aluganti Narasimhulu

  Antioxidants (Basel) 2021 Aug; 10(8):0.

- iTRAQ-based proteomic analysis reveals potential regulatory networks in dust mite-related asthma treated with subcutaneous allergen immunotherapy.

  Jun Bai, Jia-Yong Zhong, Wang Liao, Ruo Hu, Liang Chen, Xian-Jin Wu, Shuang-Ping Liu.

  Molecular MedicineRreports 2020 Nov; 22(5):3607.

  Application: Quant, Human, Human serum

- Greater expression of postprandial inflammatory genes in humans after intervention with saturated when compared to unsaturated fatty acids.

  Monfort-Pires M, Crisma AR, Bordin S, Ferreira SRG.

  European Journal of Nutrition 2017 Nov; [Epub].

  Application: Quant, Human, Human blood

- Novel biomarkers of cardiometabolic risk are associated with plasma glucose within non-diabetic range. The Brazilian Longitudinal Study of Adult Health-ELSA-Brazil.

  Almeida-Pititto B, Ribeiro-Filho FF, Lotufo PA, Bensenor IM, Ferreira SR.

  Diabetes Research and Clinical Practice 2015 Jul; 109(1):110.

  Application: ELISA, Human, Plasma

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- Cideb Facilitates the Lipidation of Chylomicrons in the Small Intestine.

  Zhang LJ, Wang C, Yuan Y, Wang H, Wu J, Liu F, Li L, Gao X, Zhao YL, Hu PZ, Li P, Ye J.

  Journal of Lipid Research 2014 Jul; 55(7):1279.

  Application: ELISA, Human, Supernatants collected from Caco-2 cells culture medium

- The many intersecting pathways underlying apolipoprotein B secretion and degradation.

  Brodsky JL, Fisher EA.

  rends in Endocrinology and Metabolism: TEM 2008 Sep; 19(7):254.

- Apolipoprotein B as a long-term predictor of mortality in type 1 diabetes mellitus: a 15-year follow up.

  Stettler C, Suter Y, Allemann S, Zwahlen M, Christ ER, Diem P.

  Journal of Internal Medicine 2006 Sep; 260(3):272.

Disease

- Abortion
- Acute Disease
- Altitude Sickness
- Alzheimer disease
- Amyotrophic lateral sclerosis
- Anemia
- Angina Pectoris
- Aortic Valve Stenosis
- Arteriosclerosis
- Asthenozoospermia
- Atherosclerosis
- Azoospermia
- beta-Thalassemia
- Biliary Tract Neoplasms

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- Blood Coagulation Disorders
- Body Weight
- Brain Ischemia
- Calcinosis
- Cardiovascular Diseases
- Carotid Artery Diseases
- Cerebral Hemorrhage
- Cerebral Infarction
- Cerebrovascular Accident
- Cholecystolithiasis
- Cholelithiasis
- Chorioamnionitis
- Chromosome Disorders
- Chronic Disease
- Cleft Lip
- Cleft Palate
- Constriction
- Coronary Artery Disease
- Coronary Disease
- Coronary Stenosis
- Dementia
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Nephropathies
- Diabetic Neuropathies
- Diseases in Twins

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- Ductus Arteriosus
- Dyslipidemias
- Edema
- Essential tremor
- Femur Head Necrosis
- Fetal Death
- Fetal Growth Retardation
- Fetal Membranes
- Gallbladder Diseases
- Gallbladder Neoplasms
- Gallstones
- Genetic Predisposition to Disease
- Hepatitis C
- Holoprosencephaly
- Hypercholesterolemia
- Hyperlipidemia
- Hyperlipidemias
- Hyperlipoproteinemia Type II
- Hyperlipoproteinemias
- Hypertension
- Hypertriglyceridemia
- Hypertrophy
- Hypobetalipoproteinemias
- Hypoxia-Ischemia
- Infant

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- Inflammation
- Inflammatory Bowel Diseases
- Insulin Resistance
- Intracranial Arteriosclerosis
- Ischemia
- Kidney Diseases
- Kidney Failure
- Lung Neoplasms
- Lymphoma
- Metabolic Syndrome X
- Myocardial Infarction
- Myocardial Ischemia
- Neoplasms
- Nephrotic Syndrome
- Obesity
- Obstetric Labor
- Oligospermia
- Osteoporosis
- Peripheral Vascular Diseases
- Phenylketonuria
- Phenylketonurias
- Postoperative Complications
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Psychiatric Status Rating Scales

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- Pulmonary Disease
- Rare Diseases
- Recurrence
- Renal Insufficiency
- Schizophrenia
- Spina Bifida Cystica
- Stomach Neoplasms
- Stroke
- Thrombophilia
- Thrombosis
- Tobacco Use Disorder
- Translocation
- Urinary Bladder Neoplasms
- Vascular Diseases
- Virilism
- Werner syndrome

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