APOC3 (Human) ELISA Kit

Catalog # KA0465 Size 1 Kit

Specification

Product Description	APOC3 (Human) ELISA Kit is a sandwich enzyme immunoassay for the quantitative measurement of human APOC3.
Suitable Sample	Cell culture supernates, Cell Lysates, CSF, Milk, Plasma, Serum and Urine
Sample Volume	50 uL
Label	Peroxidase-conjugated
Detection Method	Colorimetric
Assay Type	Quantitative
Calibration Range	1.953 to 500 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 — APOC3

Entrez GeneID	345
Gene Name	APOC3
Gene Alias	APOCIII, MGC150353

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Gene Description	apolipoprotein C-III
Omim ID	107720
Gene Ontology	Hyperlink
Gene Summary	Apolipoprotein C-III is a very low density lipoprotein (VLDL) protein. APOC3 inhibits lipoprotein lipase and hepatic lipase; it is thought to delay catabolism of triglyceride-rich particles. The APOA1, APOC3 and APOA4 genes are closely linked in both rat and human genomes. The A-I and A-IV genes are transcribed from the same strand, while the A-1 and C-III genes are convergently transcribed. An increase in apoC-III levels induces the development of hypertriglyceridemia. [provided by RefSeq
Other Designations	-

Publication Reference

- Correlates of pentraxin 3 serum concentration in men and women with type 2 diabetes.

  Małgorzata Waluś-Miarka, Aleksandra Trojak, Przemysław Miarka, Maria Kapusta, Ewa Kawalec, Barbara Idzior-Waluś, Maciej T Małecki.

  Innate immunity 2020 Jul; 26(5):351.

  Application: ELISA, Human, Serum

- Serum PCSK9 Correlates with PTX3 and Apolipoproteins B, A1, and C3 Concentrations in Patients with Type 2 Diabetes.

  Małgorzata Waluś-Miarka, Maria Kapusta, Przemysław Miarka, Ewa Kawalec, Barbara Idzior-Waluś.

  Cardiovascular Therapeutics 2021 Dec; 2021:7956161.

  Application: S-ELISA, Human, Human plasma

- The majority of lipoprotein lipase in plasma is bound to remnant lipoproteins: A new definition of remnant lipoproteins.

  Sato K, Okajima F, Miyashita K, Imamura S, Kobayashi J, Stanhope KL, Havel PJ, Macida T, Sumino H, Murakami M, Schaefer E, Nakajima K.

  Clinica Chimica Acta 2016 Oct; 461:114.

  Application: ELISA, Human, Plasma

- Integrating multiple 'omics' analyses identifies serological protein biomarkers for preeclampsia.

  Liu LY, Yang T, Ji J, Wen Q, Morgan AA, Jin B, Chen G, Lyell DJ, Stevenson DK, Ling XB, Butte AJ.

  BMC Medicine 2013 Nov; 11(1):236.

  Application: ELISA, Human, Serum

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- The Effect of a Low Fructose and Low Glycemic Index/Load (FRAGILE) Dietary Intervention on Indices of Liver Function, Cardiometabolic Risk Factors, and Body Composition in Children and Adolescents With Nonalcoholic Fatty Liver Disease (NAFLD).

  Mager DR, Iniguez IR, Gilmour S, Yap J.

  Journal of Parenteral and Enteral Nutrition 2015 Jan; 39(1):73.

  Application: ELISA, Human, Human blood

- Ovarian cyst fluid is a rich proteome resource for detection of new tumor biomarkers.

  Bjorg Kristjansdottir, Karolina Partheen, Eric T Fung, Janusz Marcickiewicz, Christine Yip, Mats Brannstrom, Karin Sundfeldt

  Clin Proteomics 2012 Dec; 9(1):14.

- ApoC-III deficiency prevents hyperlipidemia induced by apoE overexpression.

  Gerritsen G, Rensen PC, Kypreos KE, Zannis VI, Havekes LM, Willems van Dijk K.

  Journal of Lipid Research 2005 Jul; 46(7):1466.

- Apolipoprotein C3 deficiency results in diet-induced obesity and aggravated insulin resistance in mice.

  Duivenvoorden I, Teusink B, Rensen PC, Romijn JA, Havekes LM, Voshol PJ.

  Diabetes 2005 Mar; 54(3):664.

- Further characterization of the metabolic properties of triglyceride-rich lipoproteins from human and mouse apoC-III transgenic mice.

  Aalto-Setala K, Weinstock PH, Bisgaier CL, Wu L, Smith JD, Breslow JL.

  Journal of Lipid Research 1996 Aug; 37(8):1802.

Pathway

- PPAR signaling pathway

Disease

- Alzheimer disease
- Amyotrophic lateral sclerosis
- Arterial Occlusive Diseases
- Arteriosclerosis

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- Atherosclerosis
- Birth Weight
- Body Weight
- Brain Ischemia
- Calcinosis
- Cardiovascular Diseases
- Carotid Artery Diseases
- Carotid Stenosis
- Chorioamnionitis
- Cognition
- Constriction
- Coronary Artery Disease
- Coronary Disease
- Coronary Stenosis
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Angiopathies
- Diabetic Nephropathies
- Diabetic Neuropathies
- Diabetic Retinopathy
- Diseases in Twins
- Ductus Arteriosus
- Dyslipidemias
- Edema
- Fatty Liver
- Fetal Membranes

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- Gallstones
- Gender Identity
- Genetic Predisposition to Disease
- Glucose Intolerance
- Heart Diseases
- Hepatitis
- Hepatitis C
- HIV Infections
- HIV-Associated Lipodystrophy Syndrome
- Hypercholesterolemia
- Hyperglycemia
- Hyperlipidemia
- Hyperlipidemias
- Hyperlipoproteinemia Type II
- Hyperlipoproteinemia Type III
- Hyperlipoproteinemia Type IV
- Hyperlipoproteinemias
- Hypertension
- Hypertriglyceridemia
- Hyperuricemia
- Hypolipoproteinemias
- Infant
- Inflammation
- Insulin Resistance
- Kidney Failure
- Metabolic Syndrome X

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- Microvascular Angina
- Myocardial Infarction
- Myocardial Ischemia
- Neoplasms
- Obesity
- Obstetric Labor
- Osteoporosis
- Peripheral Vascular Diseases
- Postoperative Complications
- Pre-Eclampsia
- Premature Birth
- Recurrence
- Renal Insufficiency
- Schizophrenia
- Stroke
- Thrombosis
- Vascular Diseases
- Weight Loss
- Werner syndrome

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