APOA1 (Human) ELISA Kit

Catalog # KA0460 Size 1 Kit

Specification

Product Description	APOA1 (Human) ELISA Kit is a competitive enzyme immunoassay for the quantitative measurement of human APOA1 in plasma, serum.
Suitable Sample	Plasma, Serum
Sample Volume	25 uL
Label	Peroxidase-conjugated
Detection Method	Colorimetric
Assay Type	Quantitative
Calibration Range	1.25 to 40 ug/mL
Limit of Detection	0.13 ug/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 — APOA1

Entrez GeneID	335
Gene Name	APOA1

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Gene Alias	MGC117399
Gene Description	apolipoprotein A-I
Omim ID	107680 604091
Gene Ontology	Hyperlink
Gene Summary	This gene encodes apolipoprotein A-I, which is the major protein component of high density lipoprotein (HDL) in plasma. The protein promotes cholesterol efflux from tissues to the liver for excretion, and it is a cofactor for lecithin cholesterolacyltransferase (LCAT) which is responsible for the formation of most plasma cholesteryl esters. This gene is closely linked with two other apolipoprotein genes on chromosome 11. Defects in this gene are associated with HDL deficiencies, including Tangier disease, and with systemic non-neuropathic amyloidosis. [provided by RefSeq
Other Designations	OTTHUMP00000069346|OTTHUMP00000069347|OTTHUMP00000069348|apolipoprotein A1

Publication Reference

- ApoA1, ApoJ and ApoE Plasma Levels and Genotype Frequencies in Cerebral Amyloid Angiopathy.

  Montañola A, de Retana SF, López-Rueda A, Merino-Zamorano C, Penalba A, Fernández-Álvarez P, Rodríguez-Luna D, Malagelada A, Pujadas F, Montaner J, Hernández-Guillamon M.

  Neuromolecular Medicine 2016 Mar; 18(1):99.

  Application: ELISA, Human, Plasma

- Therapeutic ultrasound: Increased HDL-Cholesterol following infusions of acoustic microspheres and apolipoprotein A-I plasmids.

  Jason W Castle, Kevin P Kent, Ying Fan, Kirk D Wallace, Cynthia E L Davis, Jeannette C Roberts, Michael E Marino, Kai E Thomenius, Hae W Lim, Eric Coles, Michael H Davidson, Steven B Feinstein, Anthony Demaria

  Atherosclerosis 2015 Jul; 241(1):33848.

- Increased level of MSU crystal-bound protein apolipoprotein A-I in acute gouty arthritis.

  Chiang SL, Ou TT, Wu YJ, Tu HP, Lu CY, Huang CM, Kuo TM, Wang TN, Chou CH, Ko YC.

  Scandinavian Journal of Rheumatology 2014 Sep; 43(6):498.

  Application: ELISA, Human, WRL-68 cells

- Comprehensive plasma profiling for the characterization of graft-versus-host disease biomarkers.

  De Bock M, Beguin Y, Leprince P, Willems E, Baron F, Deroyer C, Seidel L, Cavalier E, de Seny D, Malaise M, Gothot A, Merville MP, Fillet M.

  Talanta 2014 Jul; 125:265.

  Application: ELISA, Human, Serum

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- The structure of apolipoprotein A-I in high density lipoproteins.

  Davidson WS, Thompson TB.

  The Journal of Biological Chemistry 2007 Aug; 282(31):22249.

- Pathways for oxidation of high-density lipoprotein in human cardiovascular disease.

  Shao B, Oda MN, Vaisar T, Oram JF, Heinecke JW.

  Curr Opin Mol Ther 2006 Jun; 8(3):198.

- Electron microscopic study on reassembly of plasma high density apoprotein with various lipids.

  Forte TM, Nichols AV, Gong EL, Levy RI, Lux S.

  Biochimica et Biophysica Acta 1971 Nov; 248(2):381.

Pathway

- PPAR signaling pathway

Disease

- Albuminuria
- Alzheimer disease
- Anemia
- Angina Pectoris
- Aortic Valve Stenosis
- Atherosclerosis
- Brain Ischemia
- Calcinosis
- Cardiovascular Diseases
- Carotid Artery Diseases
- Cerebral Hemorrhage
- Cerebral Infarction

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- Cerebrovascular Accident
- Cerebrovascular Disorders
- Chorioamnionitis
- Cleft Lip
- Cleft Palate
- Cognition
- Cognition Disorders
- Coronary Artery Disease
- Coronary Disease
- Coronary Stenosis
- Dementia
- Diabetes Mellitus
- Diabetic Angiopathies
- Diseases in Twins
- Ductus Arteriosus
- Dyslipidemias
- Edema
- Femur Head Necrosis
- Fetal Membranes
- Gallstones
- Genetic Predisposition to Disease
- Gout
- Hepatitis
- Hepatitis C
- HIV Infections
- Hypercholesterolemia

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- Hyperlipidemia
- Hyperlipidemias
- Hypertension
- Hypertriglyceridemia
- Hyperuricemia
- Hypolipoproteinemias
- Infant
- Inflammation
- Insulin Resistance
- Intracranial Aneurysm
- Intracranial Arteriosclerosis
- Kidney Failure
- Metabolic Syndrome X
- Multiple Sclerosis
- Myocardial Infarction
- Myocardial Ischemia
- Neuropsychological Tests
- Obesity
- Obstetric Labor
- Postoperative Complications
- Pre-Eclampsia
- Premature Birth
- Recurrence
- Retinal Diseases
- Thrombosis
- Verbal Learning

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- Werner syndrome

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