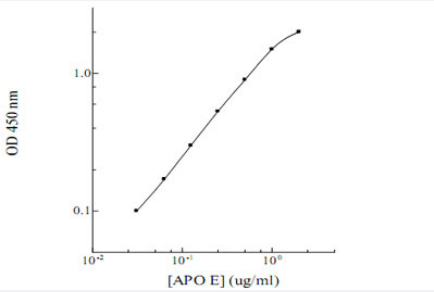
APOE (Human) ELISA Kit

Catalog # KA1031 Size 1 Kit

Applications



The standard curve is for the purpose of illustration only and should not be used to calculate unknowns. A standard curve should be generated each time the assay is performed.

Specification

Product Description	APOE (Human) ELISA Kit is a sandwich enzyme immunoassay for the quantitative measurement of human APOE.
Suitable Sample	Cell Culture Supernatants, CSF, Plasma, Serum.
Sample Volume	50 uL
Label	Peroxidase-conjugated
Detection Method	Colorimetric
Assay Type	Quantitative
Calibration Range	0.016 to 1 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

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- Quantification

Gene Info — APOE

Entrez GeneID	348
Gene Name	APOE
Gene Alias	AD2, LPG, MGC1571, apoprotein
Gene Description	apolipoprotein E
Omim ID	104310 107741 269600 603075
Gene Ontology	Hyperlink
Gene Summary	Chylomicron remnants and very low density lipoprotein (VLDL) remnants are rapidly removed fro m the circulation by receptor-mediated endocytosis in the liver. Apolipoprotein E, a main apoprot ein of the chylomicron, binds to a specific receptor on liver cells and peripheral cells. ApoE is ess ential for the normal catabolism of triglyceride-rich lipoprotein constituents. The APOE gene is ma pped to chromosome 19 in a cluster with APOC1 and APOC2. Defects in apolipoprotein E result in familial dysbetalipoproteinemia, or type III hyperlipoproteinemia (HLP III), in which increased pla sma cholesterol and triglycerides are the consequence of impaired clearance of chylomicron and VLDL remnants. [provided by RefSeq
Other Designations	apolipoprotein E3

Publication Reference

- Neuroinflammation in neuronopathic Gaucher disease: Role of microglia and NK cells, biomarkers, and response to substrate reduction therapy.

  Chandra Sekhar Boddupalli, Shiny Nair, Glenn Belinsky, Joseph Gans, Erin Teeple, Tri-Hung Nguyen, Sameet Mehta, Lilu Guo, Martin L Kramer, Jiapeng Ruan, Honggge Wang, Matthew Davison, Dinesh Kumar, D J Vidyadhara, Bailin Zhang, Katherine Klinger, Pramod K Mistry.

  Elife 2022 Aug; 11:e79830.

  Application: Quant, Human, Sera

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- Comparison of Commercial ELISA Kits, a Prototype Multiplex Electrochemoluminescent Assay, and a Multiplex Bead-Based Immunoassay for Detecting a Urine-Based Bladder-Cancer-Associated Diagnostic Signature.

  Furuya H, Pagano I, Chee K, Kobayashi T, Wong RS, Lee R, Rosser CJ.

  Diagnostics (Basel, Switzerland) 2019 Oct; 9(4):E166.

  Application: Quant, Human, Human urine samples

- A flow cytometry-based in vitro assay reveals that formation of apolipoprotein E (ApoE)-amyloid beta complexes depends on ApoE isoform- and cell type.

  Kara E, Marks JD, Roe AD, Commins C, Fan Z, Calvo-Rodriguez M, Wegmann S, Hudry E, Hyman BT.

  The Journal of Biological Chemistry 2018 Aug; 293(34):13247.

  Application: Quant, Human, HEK 293 cells

- A multiplex immunoassay for the non-invasive detection of bladder cancer.

  Shimizu Y, Furuya H, Bryant Greenwood P, Chan O, Dai Y, Thornquist MD, Goodison S, Rosser CJ.

  Journal of Translational Medicine 2016 Jan; 14:31.

  Application: ELISA, Human, Urine

- External Validation of a Multiplex Urinary Protein Panel for the Detection of Bladder Cancer in a Multicenter Cohort.

  Chen LM, Chang M, Dai Y, Chai KX, Dyrskjot L, Sanchez-Cabayo M, Szarvas T, Zwarthoff EC, Lokeswhar V, Jeronimo C, Parker AS, Ross S, Borre M, Orntoft TF, Jaeger T, Beukers W, Lopez LE, Henrique R, Young PR, Urquidi V, Goodison S, Rosser CJ.

  Cancer Epidemiology, Biomarkers & Prevention 2014 Sep; 23(9):1804.

  Application: ELISA, Human, Urine

- Urinary Protein Biomarker Panel for the Detection of Recurrent Bladder Cancer.

  Rosser CJ, Chang M, Dai Y, Ross S, Mengual L, Alacaraz A, Goodison S.

  Cancer Epidemiology, Biomarkers & Prevention 2014 Jul; 23(7):1340.

  Application: ELISA, Human, Urine

- Multiplex Protein Signature for the Detection of Bladder Cancer in Voided Urine Samples.

  Rosser CJ, Ross S, Chang M, Dai Y, Mengual L, Zhang G, Kim J, Urquidi V, Alcaraz A, Goodison S.

  The Journal of Urology 2013 Dec; 190(6):2257.

  Application: ELISA, Human, Urine

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- Diagnostic potential of urinary α1-antitrypsin and apolipoprotein E in the detection of bladder cancer.

  Urquidi V, Goodison S, Ross S, Chang M, Dai Y, Rosser CJ.

  The Journal of Urology 2012 Dec; 188(6):2377.

  Application: Quant, Human, Human urine

- A multi-analyte assay for the non-invasive detection of bladder cancer.

  Goodison S, Chang M, Dai Y, Urquidi V, Rosser CJ.

  PLoS One 2012 Oct; 7(10):e47469.

  Application: Quant, Human, Human urine samples

- Apolipoprotein (apo) E4 enhances HIV-1 cell entry in vitro, and the APOE epsilon4/epsilon4 genotype accelerates HIV disease progression.

  Burt TD, Agan BK, Marconi VC, He W, Kulkarni H, Mold JE, Cavrois M, Huang Y, Mahley RW, Dolan MJ, McCune JM, Ahuja SK.

  Proceedings of the National Academy of Sciences of the United States of America 2008 Jun; 105(25):8718.

- Apolipoprotein E genotype and memory in the sixth decade of life.

  Schultz MR, Lyons MJ, Franz CE, Grant MD, Boake C, Jacobson KC, Xian H, Schellenberg GD, Eisen SA, Kremen WS.

  Neurology 2008 May; 70(19 Pt 2):1771.

Disease

- Abortion
- Achievement
- Acquired Immunodeficiency Syndrome
- Acute Disease
- Adenoma
- AIDS Dementia Complex
- AIDS-Related Opportunistic Infections
- Akathisia
- Albuminuria
- Alcohol Amnestic Disorder

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- Alcohol Withdrawal Seizures
- Alcoholism
- Alcohol-Related Disorders
- Alzheimer disease
- Amnesia
- Amyloid Neuropathies
- Amyloidosis
- Amyotrophic lateral sclerosis
- Anemia
- Aneurysm
- Angina
- Angina Pectoris
- Anomia
- Anoxia
- Anticipation
- Anxiety Disorders
- Aortic Aneurysm
- Aortic Diseases
- Aortic Valve Stenosis
- Aphasia
- Appetite
- Aptitude
- Arteriosclerosis
- Arteriovenous Malformations
- Arthritis
- Association Learning

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- Atherosclerosis
- Atrial Fibrillation
- Atrophy
- Attention
- Attention Deficit Disorder with Hyperactivity
- Auditory Perception
- Auditory Perceptual Disorders
- Autistic Disorder
- Awareness
- Basal Ganglia Diseases
- Behcet Syndrome
- beta-Thalassemia
- Biliary Tract Neoplasms
- Bipolar Disorder
- Birth Weight
- Blood Coagulation Disorders
- Body Weight
- Bone Diseases
- Bone Resorption
- Brain Concussion
- Brain Damage
- Brain Diseases
- Brain Edema
- Brain Infarction
- Brain Injuries
- Brain Ischemia

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- Breast cancer
- Breast Neoplasms
- CADASIL
- Cadaver
- Calcinosis
- Candidiasis
- Carcinoma
- Cardiomegaly
- Cardiomyopathy
- Cardiovascular Diseases
- Carotid Artery Diseases
- Carotid Artery Thrombosis
- Carotid Stenosis
- Cataract
- Cellulitis
- Central Nervous System Diseases
- Cerebral Amyloid Angiopathy
- Cerebral Hemorrhage
- Cerebral Infarction
- Cerebral Palsy
- Cerebrovascular Accident
- Cerebrovascular Disorders
- Child Behavior Disorders
- Child Development Disorders
- Chlamydophila Infections

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- Choice Behavior
- Cholecystolithiasis
- Cholelithiasis
- Cholestasis
- Chorioamnionitis
- Choroid Diseases
- Choroidal Neovascularization
- Chromosome Aberrations
- Chronic Disease
- Cleft Lip
- Cleft Palate
- Cognition
- Cognition Disorders
- Colitis
- Colon cancer
- Colonic Neoplasms
- Color Perception
- Colorectal Neoplasms
- Combat Disorders
- Community Mental Health Services
- Concept Formation
- Confusion
- Congenital Abnormalities
- Constriction
- Coronary Artery Disease
- Coronary Disease

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- Coronary Restenosis
- Coronary Stenosis
- Craniocerebral Trauma
- Creutzfeldt-Jakob Syndrome
- Critical Illness
- Cross Infection
- Cues
- Cytomegalovirus Infections
- Death
- Decision Making
- Delirium
- Dementia
- Depressive Disorder
- Developmental Disabilities
- Diabetes
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Angiopathies
- Diabetic Nephropathies
- Diabetic Neuropathies
- Diabetic Retinopathy
- Diarrhea
- Differential Threshold
- Discrimination (Psychology)
- Discrimination Learning
- Disease Progression

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- Disease Susceptibility
- Diseases in Twins
- Disorders of Excessive Somnolence
- Dominance
- Down Syndrome
- Ductus Arteriosus
- Dyslipidemias
- Dystonia
- Dystonic Disorders
- Edema
- Electroconvulsive Therapy
- Encephalitis
- Epilepsy
- Executive Function
- Exfoliation Syndrome
- Exophthalmos
- Fatigue
- Fatty Liver
- Fetal Death
- Fetal Diseases
- Fetal Growth Retardation
- Fetal Membranes
- Fetal Nutrition Disorders
- Forearm Injuries
- Fractures
- Frontotemporal Dementia

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- Frontotemporal Lobar Degeneration
- Functional Laterality
- Gallbladder Diseases
- Gallstones
- Genetic Diseases
- Genetic Predisposition to Disease
- Genetics
- Geographic Atrophy
- Geriatric Psychiatry
- Glaucoma
- Glomerulonephritis
- Glomerulosclerosis
- Growth Disorders
- Guillain-Barre Syndrome
- Hallucinations
- Head Injuries
- Hearing Loss
- Heart Arrest
- Heart Defects
- Heart Diseases
- Hemiplegia
- Hemochromatosis
- Hemorrhage
- Hepatitis
- Hepatitis B
- Hepatitis C

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- Hepatolenticular Degeneration
- Hereditary hemochromatosis
- Herpes Genitalis
- Herpes Labialis
- Herpes Simplex
- Herpesviridae Infections
- Hip Fractures
- HIV Infections
- HIV Seropositivity
- Holoprosencephaly
- Huntington disease
- Hypercholesterolemia
- Hyperglycemia
- Hyperhomocysteinemia
- Hyperinsulinism
- Hyperlipidemia
- Hyperlipidemias
- Hyperlipoproteinemia Type II
- Hyperlipoproteinemia Type III
- Hyperlipoproteinemia Type IV
- Hyperlipoproteinemias
- Hypertension
- Hypertriglyceridemia
- Hypertrophy
- Hypoglycemia
- Hypopituitarism

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- Hypotension
- Hypothyroidism
- Hypoxia-Ischemia
- Infant
- Infarction
- Inflammation
- Inflammatory Bowel Diseases
- Inhibition (Psychology)
- Insulin Resistance
- Intelligence Tests
- Interview
- Intracranial Aneurysm
- Intracranial Arteriosclerosis
- Intracranial Hemorrhages
- Intracranial Hypertension
- Intracranial Thrombosis
- Iron Metabolism Disorders
- Iron Overload
- Ischemia
- Ischemic Attack
- Ketosis
- Kidney Diseases
- Kidney Failure
- Kidney Neoplasms
- Language Tests
- Lead Poisoning

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- Learning
- Learning Disorders
- Lewy Body Disease
- Lipid Metabolism Disorders
- Liver Cirrhosis
- Lung Neoplasms
- Lupus Erythematosus
- Lupus Vasculitis
- Lymphoma
- Macular Degeneration
- Macular Edema
- Malaria
- Malnutrition
- Memory
- Memory Disorders
- Mental Disorders
- Mental Health
- Mental Processes
- Mental Recall
- Mental Status Schedule
- Mercury Poisoning
- Metabolic Diseases
- Metabolic Syndrome X
- Microsatellite Instability
- Migraine Disorders
- Migraine with Aura

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- Migraine without Aura
- Mitral Valve Stenosis
- Mood Disorders
- Motor Skills
- Mouth
- Multiple Sclerosis
- Muscle Rigidity
- Muscular Diseases
- Myasthenia Gravis
- Myocardial Infarction
- Myocardial Ischemia
- Myoclonus
- Myositis
- Narcolepsy
- Neoplasms
- Nephrosis
- Nephrotic Syndrome
- Nerve Degeneration
- Nervous System Diseases
- Neurodegenerative Diseases
- Neuropsychological Tests
- Nutrition Disorders
- Obesity
- Obsessive-Compulsive Disorder
- Obstetric Labor

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- Olfaction Disorders
- Optic Neuritis
- Orientation
- Osteoporosis
- Ovarian Failure
- Overweight
- Paired-Associate Learning
- Pancreatitis
- Panic Disorder
- Paramyxoviridae Infections
- Parkinson disease
- Parkinsonian Disorders
- Pattern Recognition
- Perception
- Perceptual Disorders
- Periodontitis
- Peripheral Nervous System Diseases
- Peripheral Vascular Diseases
- Persistent Vegetative State
- Personality Inventory
- Phenylketonuria
- Phenylketonurias
- Pick Disease of the Brain
- Plaque
- Polycystic Kidney
- Polycystic kidney disease

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- Polycystic Ovary Syndrome
- Postmortem Changes
- Postoperative Complications
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Prenatal Exposure Delayed Effects
- Prion Diseases
- Problem Solving
- Prostate cancer
- Prostatic Neoplasms
- Psoriasis
- Psychiatric Status Rating Scales
- Psychological Tests
- Psychology
- Psychometrics
- Psychomotor Agitation
- Psychomotor Disorders
- Psychomotor Performance
- Psychotic Disorders
- Puberty
- Pulmonary Disease
- Pulmonary Embolism
- Reaction Time
- Recognition (Psychology)
- Rectal Neoplasms

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- Recurrence
- Renal Insufficiency
- Retinal Diseases
- Rett Syndrome
- Sarcoma
- Schizophrenia
- Schizophrenic Psychology
- Sclerosis
- Seizures
- Sensation Disorders
- Sensory Thresholds
- Sepsis
- Serial Learning
- Shock
- Skull Fractures
- Sleep Apnea
- Sleep Apnea Syndromes
- Sleep Deprivation
- Sleep Disorders
- Sleep Stages
- Smell
- Smith-Lemli-Opitz Syndrome
- Space Perception
- Speech Perception
- Spina Bifida Cystica
- Spinal Cord Diseases

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- Spinal Fractures
- Spinal Osteophytosis
- Spondylosis
- Stomatitis
- Stress
- Stroke
- Subarachnoid Hemorrhage
- Substance Withdrawal Syndrome
- Sudden Infant Death
- Supranuclear Palsy
- Syndrome
- Task Performance and Analysis
- Tauopathies
- Tension-Type Headache
- Tetralogy of Fallot
- Thalassemia
- Thinking
- Thrombophilia
- Thrombosis
- Tinea Versicolor
- Tobacco Use Disorder
- Tooth Loss
- Torticollis
- Trail Making Test
- Tremor
- Trisomy

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- Unconsciousness
- Uremia
- Urinary Bladder Neoplasms
- Vascular Diseases
- Vasospasm
- Venous Thrombosis
- Ventricular Dysfunction
- Verbal Learning
- Vertebral Artery Dissection
- Virilism
- Vision
- Visual Perception
- Vitamin B 12 Deficiency
- Vitamin K Deficiency
- Wechsler Scales
- Weight Gain
- Weight Loss
- Werner syndrome
- Xanthomatosis
- Yin Deficiency

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