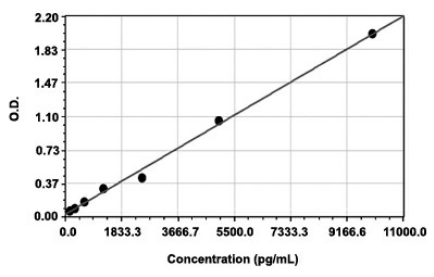
ACE (Human) ELISA Kit

Catalog # KA0432 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	ACE (Human) ELISA Kit is a sandwich enzyme immunoassay for the quantitative measurement of human ACE.
Suitable Sample	Cell Culture Supernatant, Plasma (heparin), Serum, Saliva
Sample Volume	100 uL
Label	HRP-conjugated
Detection Method	Colorimetric
Assay Type	Quantitative
Calibration Range	0.78 to 50 ng/mL
Limit of Detection	< 5 pg/mL
Reactivity	Human
Regulation Status	For research use only (RUO)
Quality Control Testing	Standard curve 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.

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Storage Instruction	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles.

Applications

- Quantification

Gene Info — ACE

Entrez GeneID	1636
Gene Name	ACE
Gene Alias	ACE1, CD143, DCP, DCP1, MGC26566
Gene Description	angiotensin I converting enzyme (peptidyl-dipeptidase A) 1
Omim ID	104300 106180 267430 603933
Gene Ontology	Hyperlink
Gene Summary	This gene encodes an enzyme involved in catalyzing the conversion of angiotensin I into a physiol ogically active peptide angiotensin II. Angiotensin II is a potent vasopressor and aldosterone-stim ulating peptide that controls blood pressure and fluid-electrolyte balance. This enzyme plays a key role in the renin-angiotensin system. Many studies have associated the presence or absence of a 287 bp Alu repeat element in this gene with the levels of circulating enzyme or cardiovascular path ophysiologies. Two most abundant alternatively spliced variants of this gene encode two isozyme s - the somatic form and the testicular form that are equally active. Multiple additional alternatively spliced variants have been identified but their full length nature has not been determined. [provide d by RefSeq
Other Designations	CD143 antigen|angiotensin I converting enzyme|angiotensin converting enzyme, somatic isoform| carboxycathepsin|dipeptidyl carboxypeptidase 1|kininase II|peptidase P|peptidyl-dipeptidase A|te sticular ECA

Publication Reference

- Selective restoration of male fertility in mice lacking angiotensin-converting enzymes by sperm-specific expression of the testicular isozyme.

  Ramaraj P, Kessler SP, Colmenares C, Sen GC.

  The Journal of Clinical Investigation 1998 Jul; 102(2):371.

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- Molecular cloning of human testicular angiotensin-converting enzyme: the testis isozyme is identical to the C-terminal half of endothelial angiotensin-converting enzyme.

  Ehlers MR, Fox EA, Strydom DJ, Riordan JF.

  PNAS 1989 Oct; 86(20):7741.

Pathway

- Hypertrophic cardiomyopathy (HCM)
- Renin-angiotensin system

Disease

- Abortion
- Accelerated Idioventricular Rhythm
- Acidosis
- Acromegaly
- Acute Disease
- Adenocarcinoma
- Adenoma
- Adrenal Gland Neoplasms
- Aggressive Periodontitis
- Albuminuria
- Alcohol Amnestic Disorder
- Alcoholism
- Altitude Sickness
- Alzheimer disease
- Amnesia
- Anemia

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- Aneurysm
- Angina
- Angina Pectoris
- Angioedema
- Anoxemia
- Anoxia
- Aortic Aneurysm
- Aortic Diseases
- Aortic Valve Insufficiency
- Aortic Valve Stenosis
- Arrhythmia
- Arrhythmias
- Arrhythmogenic Right Ventricular Dysplasia
- Arterial Occlusive Diseases
- Arteriosclerosis
- Arthritis
- Asphyxia
- Asthma
- Atherosclerosis
- Atrial Fibrillation
- Atrophy
- Awareness
- Basal Ganglia Diseases
- Behcet Syndrome
- beta-Thalassemia
- Bipolar Disorder

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- Birth Weight
- Blood Coagulation Disorders
- Body Weight
- Brain Infarction
- Brain Injuries
- Brain Injury
- Brain Ischemia
- Breast cancer
- Breast Neoplasms
- Bronchial Hyperreactivity
- Bronchopulmonary Dysplasia
- Cachexia
- Cadaver
- Calcinosis
- Carcinoma
- Cardiac Output
- Cardiomegaly
- Cardiomyopathies
- Cardiomyopathy
- Cardiovascular Abnormalities
- Cardiovascular Diseases
- Carotid Artery Diseases
- Carotid Stenosis
- Cellulitis
- Cerebral Arterial Diseases

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- Cerebral Hemorrhage
- Cerebral Infarction
- Cerebrovascular Accident
- Cerebrovascular Disorders
- Chagas Cardiomyopathy
- Cholestasis
- Chorioamnionitis
- Chromosome Aberrations
- Chromosome Deletion
- Chronic Disease
- Chronic Periodontitis
- Cicatrix
- Cognition
- Cognition Disorders
- Colitis
- Colorectal Neoplasms
- Connective Tissue Diseases
- Constriction
- Convalescence
- Coronary Artery Disease
- Coronary Disease
- Coronary Restenosis
- Coronary Stenosis
- Coronary Thrombosis
- Cough
- Creativeness

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- Critical Illness
- Crohn Disease
- Cushing Syndrome
- Cystic Fibrosis
- Death
- Dementia
- Depressive Disorder
- Dermatitis
- Diabetes
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Angiopathies
- Diabetic Foot
- Diabetic Nephropathies
- Diabetic Neuropathies
- Diabetic Retinopathy
- Dilatation
- Disease Models
- Disease Progression
- Disease Susceptibility
- DNA Damage
- Drug Hypersensitivity
- Drug Toxicity
- Duodenal Ulcer
- Dyskinesia
- Dyslipidemias

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- Edema
- Electroconvulsive Therapy
- Emergencies
- Emphysema
- Endometrial Neoplasms
- Endometriosis
- Epilepsy
- Escherichia coli Infections
- Esophageal and Gastric Varices
- Esophageal Neoplasms
- Exfoliation Syndrome
- Eye Diseases
- Fabry Disease
- Fatigue
- Fatigue Syndrome
- Femur Head Necrosis
- Fetal Death
- Fetal Diseases
- Fetal Growth Retardation
- Fetal Membranes
- Fibromuscular Dysplasia
- Fibrosis
- Gallbladder Neoplasms
- Gastritis
- Gastrointestinal Neoplasms
- Gaucher disease

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- Genetic Diseases
- Genetic Predisposition to Disease
- Glaucoma
- Glomerulonephritis
- Glomerulosclerosis
- Glucose Intolerance
- Glycogen Storage Disease Type II
- Glycogen Storage Disease Type V
- Graft Occlusion
- Heart Block
- Heart Defects
- Heart Diseases
- Heart Failure
- Heart Septal Defects
- Heart Valve Diseases
- Heat Stress Disorders
- Helicobacter Infections
- Hemolytic-Uremic Syndrome
- Hemorrhage
- Hepatitis C
- Hepatorenal Syndrome
- Hernia
- Hydrocephalus
- Hydronephrosis
- Hyperandrogenism
- Hypercholesterolemia

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- Hyperglycemia
- Hyperhomocysteinemia
- Hyperlipidemias
- Hyperlipoproteinemia Type I
- Hyperlipoproteinemia Type II
- Hyperparathyroidism
- Hyperplasia
- Hypersensitivity
- Hypertension
- Hypertrophy
- Hypoglycemia
- Hyponatremia
- Hypotension
- Impotence
- Infant
- Infarction
- Infection
- Infertility
- Inflammation
- Inflammatory Bowel Diseases
- Insulin Resistance
- Intermittent Claudication
- Intracranial Aneurysm
- Intracranial Arterial Diseases
- Intracranial Arteriosclerosis

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- Intracranial Hemorrhages
- Ischemic Attack
- Joint Diseases
- Kidney Diseases
- Kidney Failure
- Kidney Neoplasms
- Leiomyoma
- Leukemia
- Leukoaraiosis
- Leukomalacia
- Liver Cirrhosis
- Liver Diseases
- Long QT syndrome
- Low Back Pain
- Lung Diseases
- Lung Neoplasms
- Lupus Erythematosus
- Lupus Nephritis
- Lymphatic Metastasis
- Macular Degeneration
- Malaria
- Marfan syndrome
- Meconium Aspiration Syndrome
- Memory
- Memory Disorders
- Meningococcal Infections

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- Mental Disorders
- Mental Status Schedule
- Metabolic Diseases
- Metabolic Syndrome X
- Microvascular Angina
- Migraine Disorders
- Migraine with Aura
- Migraine without Aura
- Mitral Valve Insufficiency
- Mitral Valve Prolapse
- Mood Disorders
- Mouth Neoplasms
- Mucocutaneous Lymph Node Syndrome
- Multicystic Dysplastic Kidney
- Multiple Organ Failure
- Multiple Sclerosis
- Musculoskeletal Diseases
- Myocardial Infarction
- Myocardial Ischemia
- Neoplasms
- Nephritis
- Nephrosis
- Nephrotic Syndrome
- Nerve Degeneration
- Neuropsychological Tests
- Neurotic Disorders

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- Neutropenia
- Obesity
- Obstetric Labor
- Ocular Hypertension
- Oligospermia
- Optic Nerve Diseases
- Optic Neuropathy
- Osteoarthritis
- Osteonecrosis
- Osteoporosis
- Otosclerosis
- Ovarian Failure
- Overweight
- Pain
- Pancreatic Diseases
- Pancreatic Pseudocyst
- Pancreatitis
- Panic Disorder
- Parkinson disease
- Periodontitis
- Peripheral Vascular Diseases
- Persian Gulf Syndrome
- Personality Inventory
- Pneumonia
- Polycystic Kidney
- Polycystic kidney disease

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- Polycystic Kidney Diseases
- Polycystic Ovary Syndrome
- Polycythemia
- Postoperative Complications
- Precancerous Conditions
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Prostate cancer
- Prostatic Hyperplasia
- Prostatic Neoplasms
- Proteinuria
- Psoriasis
- Psychiatric Status Rating Scales
- Psychometrics
- Psychomotor Performance
- Psychoses
- Psychotic Disorders
- Puberty
- Puerperal Disorders
- Pulmonary Disease
- Pulmonary Edema
- Pulmonary Embolism
- Pulmonary Fibrosis
- Pulmonary Heart Disease
- Purpura

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- Pyelonephritis
- Radius Fractures
- Raynaud Disease
- Recurrence
- Reflex Sympathetic Dystrophy
- Renal Artery Obstruction
- Renal Insufficiency
- Reperfusion Injury
- Respiratory Distress Syndrome
- Respiratory Insufficiency
- Respiratory Sounds
- Respiratory Tract Diseases
- Retinal Artery Occlusion
- Retinal Diseases
- Retinal Vein Occlusion
- Retinopathy of Prematurity
- Rhabdomyolysis
- Rheumatic Fever
- Rheumatic Heart Disease
- Rhinitis
- Sarcoidosis
- Sarcopenia
- Schizophrenia
- Schizophrenic Psychology
- Schizotypal Personality Disorder
- Scleroderma

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- Seizures
- Sepsis
- Severe Acute Respiratory Syndrome
- Shock
- Skin Diseases
- Sleep Apnea
- Sleep Apnea Syndromes
- Sleep Deprivation
- Sleep Disorders
- Spondylarthropathies
- Spondylitis
- Stomach Neoplasms
- Stomach Ulcer
- Streptococcal Infections
- Stress
- Stroke
- Subarachnoid Hemorrhage
- Substance Withdrawal Syndrome
- Substance-Related Disorders
- Syncope
- Syndrome
- Tachycardia
- Task Performance and Analysis
- Thromboembolism
- Thrombophilia
- Thrombosis

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- Time and Motion Studies
- Tobacco Use Disorder
- Translocation
- Tricuspid Valve Insufficiency
- Tuberculosis
- Uremia
- Ureteral Obstruction
- Urinary Incontinence
- Urinary Tract Infections
- Urologic Diseases
- Urticaria
- Vascular Diseases
- Venous Thrombosis
- Ventricular Dysfunction
- Ventricular Fibrillation
- Vesico-Ureteral Reflux
- Vitiligo
- Water Intoxication
- Wegener Granulomatosis
- Weight Gain
- Weight Loss
- Werner syndrome
- Wounds and Injuries

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