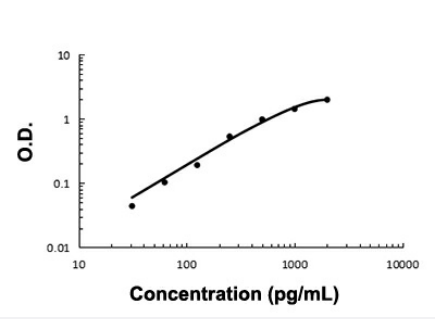
PON1 (Human) ELISA Kit

Catalog # KA4233 Size 1 Kit

Applications



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

Specification

Product Description	PON1 (Human) ELISA Kit is a sandwich enzyme immunoassay for the quantitative measurement of human PON1.
Suitable Sample	Cell Culture Supernatants, Cell Lysates, Plasma (Heparin), Serum.
Sample Volume	100 uL
Label	HRP-conjugated
Detection Method	Colorimetric
Assay Type	Quantitative
Calibration Range	31.2 to 2000 pg/mL
Reactivity	Human
Regulation Status	For research use only (RUO)
Quality Control Testing	Standard Curve The standard curve is for the purpose of demonstration only and should not be used to calculate unknowns. A standard curve should be generated each time the assay is performed.
Storage Instruction	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles.

Applications

- Quantification

Gene Info — PON1

Entrez GeneID	5444
Gene Name	PON1
Gene Alias	ESA, PON
Gene Description	paraoxonase 1
Omim ID	168820
Gene Ontology	Hyperlink
Gene Summary	The enzyme encoded by this gene is an arylesterase that mainly hydrolyzes paroxon to produce p-nitrophenol. Paroxon is an organophosphorus anticholinesterase compound that is produced in vivo by oxidation of the insecticide parathion. Polymorphisms in this gene are a risk factor in coronary artery disease. The gene is found in a cluster of three related paraoxonase genes at 7q21.3. [provided by RefSeq
Other Designations	arylesterase B-type|esterase A|paraoxonase B-type|serum aryldiakylphosphatase

Publication Reference

- Blb-NRF2-PON1 Cross-Talk in Abdominal Aortic Aneurysm Progression.

  Magdalena P Kasprzak, Bogna Gryszczyńska, Anna Olasińska-Wiśniewska, Tomasz Urbanowicz, Andrzej Jawień, Zbigniew Krasiński, Dorota Formanowicz.

  Antioxidants 2023 Aug; 12(8):1568.

  Application: ELISA, Human, Human blood

- Paraoxonase 1 Q192R genotype and activity affect homocysteine thiolactone levels in humans.

  Perła-Kaján J, Borowczyk K, Głowacki R, Nygård O, Jakubowski H.

  FASEB Journal 2018 May; [Epub].

  Application: S-ELISA, Human, Plasma

Pathway

- Bisphenol A degradation
- gamma-Hexachlorocyclohexane degradation
- Metabolic pathways

Disease

- Adenocarcinoma
- Adrenal hyperplasia
- Albuminuria
- Alzheimer disease
- Amyotrophic lateral sclerosis
- Angina Pectoris
- Aortic Aneurysm
- Arsenic Poisoning
- Arteriosclerosis
- Arthritis
- Asthma
- Astrocytoma
- Atherosclerosis
- Autistic Disorder
- Birth Weight
- Body Weight
- Brain Diseases
- Brain Ischemia
- Brain Neoplasms
- Breast cancer

- Breast Diseases
- Breast Neoplasms
- Calcinosis
- Cardiovascular Diseases
- Carotid Artery Diseases
- Carotid Stenosis
- Cerebral Amyloid Angiopathy
- Cerebral Hemorrhage
- Cerebral Infarction
- Cerebrovascular Accident
- Cerebrovascular Disorders
- Chorioamnionitis
- Chronic Disease
- Cleft Lip
- Cleft Palate
- Cognition
- Colorectal Neoplasms
- Connective Tissue Diseases
- Constriction
- Coronary Artery Disease
- Coronary Disease
- Coronary Restenosis
- Coronary Stenosis
- Coronary Vasospasm
- Death
- Dementia

- Depressive Disorder
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Angiopathies
- Diabetic Nephropathies
- Diabetic Retinopathy
- Disease Progression
- Disease Susceptibility
- DNA Damage
- Drug Toxicity
- Edema
- Environmental Illness
- Esophageal Neoplasms
- Essential Tremor
- Femur Head Necrosis
- Fetal Diseases
- Fetal Growth Retardation
- Fetal Membranes
- Genetic Predisposition to Disease
- Glaucoma
- Glioma
- Glomerulonephritis
- Glomerulosclerosis
- Head and Neck Neoplasms
- Hearing Loss
- Heart Diseases

- Helicobacter Infections
- Hepatitis C
- HIV Infections
- Hyperandrogenism
- Hypercholesterolemia
- Hyperemia
- Hyperglycemia
- Hyperhomocysteinemia
- Hyperlipidemias
- Hyperlipoproteinemia Type II
- Hypertension
- Hypertriglyceridemia
- Hypertrophy
- Hypoxia-Ischemia
- Infection
- Inflammation
- Inflammatory Bowel Diseases
- Insulin Resistance
- Intracranial Arteriosclerosis
- Kidney Diseases
- Kidney Failure
- Liver Diseases
- Lung Neoplasms
- Lupus Erythematosus
- Lupus Nephritis
- Lymphoma

- Macular Degeneration
- Memory
- Meningeal Neoplasms
- Meningioma
- Metabolic Diseases
- Metabolic Syndrome X
- Microvascular Angina
- Mouth Diseases
- Multiple Chemical Sensitivity
- Multiple Myeloma
- Multiple Sclerosis
- Musculoskeletal Diseases
- Myocardial Infarction
- Myocardial Ischemia
- Neoplasm Recurrence
- Neoplasms
- Nephritis
- Nephrotic Syndrome
- Neuroectodermal Tumors
- Obesity
- Obstetric Labor
- Occupational Diseases
- Osteoporosis
- Ovarian cancer
- Ovarian Neoplasms
- Pain

- Pancreatitis
- Parkinson disease
- Polycystic Ovary Syndrome
- Postoperative Complications
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Prenatal Exposure Delayed Effects
- Prostate cancer
- Prostatic Neoplasms
- Proteinuria
- Psychomotor Performance
- Purpura
- Recurrence
- Renal Insufficiency
- Schizophrenia
- Skin Diseases
- Stroke
- Substance-Related Disorders
- Syndrome
- Thrombosis
- Tobacco Use Disorder
- Uremia
- Urinary Bladder Neoplasms
- Vascular Diseases
- Virilism

- Vision
- Werner syndrome
- Wet Macular Degeneration