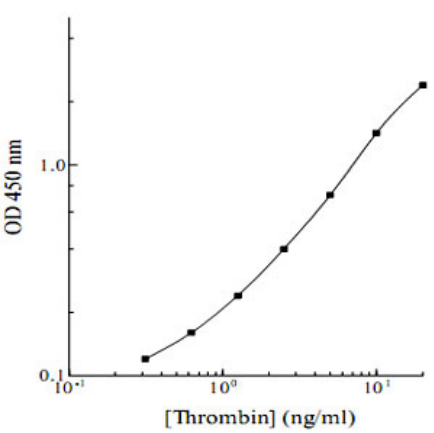
Thrombin (Human) ELISA Kit

Catalog # KA0511 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	Thrombin (Human) ELISA Kit is a sandwich enzyme immunoassay for the quantitative measurement of human thrombin in cell culture supernatant.
Suitable Sample	Cell Culture Samples
Sample Volume	50 uL
Label	Peroxidase-conjugated
Detection Method	Colorimetric
Assay Type	Quantitative
Calibration Range	0.313 to 20 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.

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Applications

- Quantification

Gene Info — F2

Entrez GeneID	2147
Gene Name	F2
Gene Alias	PT
Gene Description	coagulation factor II (thrombin)
Omim ID	176930
Gene Ontology	Hyperlink
Gene Summary	Coagulation factor II is proteolytically cleaved to form thrombin in the first step of the coagulation cascade which ultimately results in the stemming of blood loss. F2 also plays a role in maintaining vascular integrity during development and postnatal life. Mutations in F2 leads to various forms of thrombosis and dysprothrombinemia. [provided by RefSeq
Other Designations	coagulation factor II|prothrombin B-chain|serine protease

Publication Reference

- Dual-reporter SERS-based biomolecular assay with reduced false-positive signals.

  Chuong TT, Pallaoro A, Chaves CA, Li Z, Lee J, Eisenstein M, Stucky GD, Moskovits M, Soh HT.

  PNAS 2017 Aug; 114(34):9056.

  Application: Quant, Human, Human serum

- Difference in release kinetics of unwashed and washed platelet-released supernatants from bone substitute materials: the impact of platelet preparation modalities.

  Knoop C, Edelmayer M, Janjić K, Pensch M, Fischer MB, Gruber R, Agis H.

  Journal of Periodontal Research 2017 Aug; 52(4):772.

  Application: Quant, Supernatants of the bone substitute materials

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- Platelet thrombus formation on collagen type I. A model of deep vessel injury. Influence of blood rheology, von Willebrand factor, and blood coagulation.

  Badimon L, Badimon JJ, Turitto VT, Vallabhajosula S, Fuster V.

  Circulation 1988 Dec; 78(6):1431.

- Inhibition of thrombin by antithrombin III in the presence of certain glycosaminoglycans found in the mammalian aorta.

  Hatton MW, Berry LR, Regoeczi E.

  Thrombosis Research 1978 Oct; 13(4):655.

  Application: RIA, Quant, Bovine, Bovine thrombin

- The conversion of prothrombin to thrombin. V. The activation of prothrombin by factor Xa in the presence of phospholipid.

  Esmon CT, Owen WG, Jackson CM.

  The Journal of Biological Chemistry 1974 Dec; 249(24):7798.

Pathway

- Complement and coagulation cascades
- Neuroactive ligand-receptor interaction
- Regulation of actin cytoskeleton

Disease

- Abortion
- Abruptio Placentae
- Activated Protein C Resistance
- Acute Disease
- Albuminuria
- Alcoholism
- Alzheimer disease
- Amyotrophic lateral sclerosis

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- Anemia
- Angina Pectoris
- Anoxia
- Antiphospholipid Syndrome
- Antithrombin III Deficiency
- Apnea
- Arterial Occlusive Diseases
- Arteriosclerosis
- Atherosclerosis
- Atrial Fibrillation
- Behcet Syndrome
- beta-Thalassemia
- Birth Weight
- Blood Coagulation Disorders
- Blood Platelet Disorders
- Body Weight
- Brain Diseases
- Brain Infarction
- Brain Ischemia
- Breast cancer
- Breast Neoplasms
- Bronchopulmonary Dysplasia
- Budd-Chiari Syndrome
- Cadaver
- Calcinosis
- Carcinoma

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- Cardiomyopathy
- Cardiovascular Diseases
- Carotid Stenosis
- Celiac Disease
- Central Nervous System Vascular Malformations
- Cerebral Hemorrhage
- Cerebral Infarction
- Cerebral Palsy
- Cerebrovascular Accident
- Cerebrovascular Disorders
- Chorioamnionitis
- Choroidal Neovascularization
- Chronic Disease
- Coagulation Protein Disorders
- Colitis
- Colorectal Neoplasms
- Connective Tissue Diseases
- Constriction
- Coronary Artery Disease
- Coronary Disease
- Coronary Restenosis
- Coronary Stenosis
- Coronary Thrombosis
- Crohn Disease
- Death

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- Diabetes Complications
- Diabetes Mellitus
- Disease Progression
- Disease Susceptibility
- Ductus Arteriosus
- Eclampsia
- Edema
- Embolism
- Embryo Loss
- Epilepsy
- Epistaxis
- Escherichia coli Infections
- Esophageal and Gastric Varices
- Eye Diseases
- Factor V Deficiency
- Factor VII Deficiency
- Factor XIII Deficiency
- Familial Mediterranean fever
- Femur Head Necrosis
- Fetal Death
- Fetal Diseases
- Fetal Growth Retardation
- Fetal Membranes
- Foramen Ovale
- Fractures
- Gastrointestinal Hemorrhage
- Gastroschisis

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- Gaucher disease
- Genetic Diseases
- Genetic Predisposition to Disease
- Genital Neoplasms
- Glaucoma
- Glomerulonephritis
- Glucosephosphate Dehydrogenase Deficiency
- Hearing Loss
- Heart Defects
- Heart Diseases
- Heart Septal Defects
- HELLP Syndrome
- Hematologic Neoplasms
- Hemiplegia
- Hemochromatosis
- Hemolytic-Uremic Syndrome
- Hemophilia A
- Hemophilia B
- Hemorrhage
- Hemorrhagic Disorders
- Hepatic Vein Thrombosis
- Hepatitis C
- Hypercholesterolemia
- Hyperhomocysteinemia
- Hyperinsulinism
- Hyperlipidemias

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- Hyperlipoproteinemia Type II
- Hypertension
- Infant
- Infection
- Infertility
- Inflammation
- Inflammatory Bowel Diseases
- Insulin Resistance
- Intracranial Arterial Diseases
- Intracranial Arteriovenous Malformations
- Intracranial Embolism
- Intracranial Embolism and Thrombosis
- Intracranial Hemorrhages
- Intracranial Thrombosis
- Inversion
- Iron Overload
- Ischemia
- Ischemic Attack
- Kidney Calculi
- Kidney Diseases
- Kidney Failure
- Legg-Perthes Disease
- Leukemia
- Leukomalacia
- Liver Cirrhosis
- Lupus Erythematosus

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- Macular Degeneration
- Mesenteric Vascular Occlusion
- Metabolic Diseases
- Metabolic Syndrome X
- Migraine Disorders
- Migraine with Aura
- Mitral Valve Prolapse
- Mouth Neoplasms
- Muscle Hypotonia
- Musculoskeletal Diseases
- Myeloproliferative Disorders
- Myocardial Infarction
- Myocardial Ischemia
- Necrosis
- Neoplasm Recurrence
- Neoplasms
- Nervous System Diseases
- Obesity
- Obstetric Labor
- Optic Neuropathy
- Osteonecrosis
- Osteoporosis
- Ovarian cancer
- Ovarian Failure
- Ovarian Neoplasms
- Overweight

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- Peripheral Vascular Diseases
- Phlebitis
- Placenta Diseases
- Polycystic Ovary Syndrome
- Polycythemia
- Polycythemia Vera
- Postoperative Complications
- Postpartum Hemorrhage
- Postthrombotic Syndrome
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Protein C Deficiency
- Protein Deficiency
- Protein S Deficiency
- Pseudotumor Cerebri
- Puberty
- Puerperal Disorders
- Pulmonary Embolism
- Purpura
- Recurrence
- Retinal Artery Occlusion
- Retinal Vein Occlusion

- Seizures
- Sepsis

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- Severe Acute Respiratory Syndrome
- Sickle Cell Trait
- Sinus Thrombosis
- Skin Diseases
- Splenomegaly
- Stomach Neoplasms
- Stroke
- Subarachnoid Hemorrhage
- Syndrome
- Tension-Type Headache
- Thalassemia
- Thrombasthenia
- Thromboangiitis Obliterans
- Thrombocythemia
- Thrombocytopenia
- Thromboembolism
- Thrombophilia
- Thrombosis
- Thrombotic Microangiopathies
- Tobacco Use Disorder
- Trauma
- Turner Syndrome
- Upper Extremity Deep Vein Thrombosis
- Varicose Ulcer
- Varicose Veins
- Vascular Diseases

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- Venous Thrombosis
- Vertebral Artery Dissection
- von Willebrand Disease
- Wegener Granulomatosis
- Werner syndrome

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