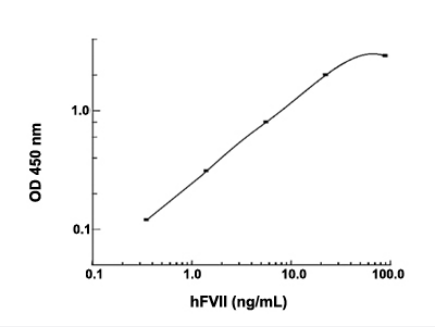
F7 (Human) ELISA Kit

Catalog # KA1837 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	F7 (Human) ELISA Kit is a sandwich enzyme immunoassay for the quantitative measurement of human F7.
Suitable Sample	Cell Culture Supernatant, Plasma, Serum
Sample Volume	50 uL
Label	Peroxidase-conjugated
Detection Method	Colorimetric
Assay Type	Quantitative
Calibration Range	0.352 to 90 ng/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.
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 — F7

Entrez GeneID	2155
Gene Name	F7
Gene Alias	-
Gene Description	coagulation factor VII (serum prothrombin conversion accelerator)
Omim ID	227500
Gene Ontology	Hyperlink
Gene Summary	This gene encodes coagulation factor VII which is a vitamin K-dependent factor essential for hemostasis. This factor circulates in the blood in a zymogen form, and is converted to an active form by either factor IXa, factor Xa, factor XIIa, or thrombin by minor proteolysis. Upon activation of the factor VII, a heavy chain containing a catalytic domain and a light chain containing 2 EGF-like domains are generated, and two chains are held together by a disulfide bond. In the presence of factor III and calcium ions, the activated factor then further activates the coagulation cascade by converting factor IX to factor IXa and/or factor X to factor Xa. Alternative splicing of this gene results in 2 transcripts. Defects in this gene can cause coagulopathy. [provided by RefSeq
Other Designations	FVII coagulation protein|OTTHUMP00000018733|OTTHUMP00000018734|coagulation factor VII|eptacog alfa

Publication Reference

- Successful synthesis of active human coagulation factor VII by co-expression of mammalian gamma-glutamyl carboxylase and modification of vit.K cycle in Drosophila Schneider S2 cells.

  Nagahashi K, Umemura K, Kanayama N, Iwaki T.

  Cytotechnology 2017 Apr; 69(2):317.

  Application: Quant, Human, S2 cells

Pathway

- Complement and coagulation cascades

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Disease

- Abortion
- Activated Protein C Resistance
- Acute Disease
- Alzheimer disease
- Amyotrophic lateral sclerosis
- Anemia
- Angina
- Angina Pectoris
- Arterial Occlusive Diseases
- Arteriosclerosis
- Atherosclerosis
- Atrial Fibrillation
- Birth Weight
- Blood Coagulation Disorders
- Body Weight
- Brain Ischemia
- Bronchopulmonary Dysplasia
- Budd-Chiari Syndrome
- Carcinoma
- Cardiovascular Diseases
- Carotid Artery Diseases
- Carotid Stenosis
- Cerebral Hemorrhage
- Cerebral Infarction

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- Cerebral Palsy
- Cerebrovascular Accident
- Cerebrovascular Disorders
- Chorioamnionitis
- Chronic Disease
- Connective Tissue Diseases
- Constriction
- Coronary Artery Disease
- Coronary Disease
- Coronary Restenosis
- Coronary Stenosis
- Coronary Thrombosis
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Angiopathies
- Disease Progression
- Edema
- Factor VII Deficiency
- Factor XIII Deficiency
- Fetal Diseases
- Fetal Membranes
- Genetic Diseases
- Genetic Predisposition to Disease
- Heart Defects
- Hemophilia A
- Hemorrhage

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- Hemorrhagic Disease of Newborn
- Hemorrhagic Disorders
- Hepatitis
- Hypercholesterolemia
- Hyperlipidemias
- Hyperlipoproteinemia Type II
- Hypertension
- Infant
- Infection
- Inflammation
- Insulin Resistance
- Intracranial Embolism
- Intracranial Thrombosis
- Ischemic Attack
- Kidney Failure
- Leukomalacia
- Liver Cirrhosis
- Metabolic Syndrome X
- Migraine Disorders
- Musculoskeletal Diseases
- Myocardial Infarction
- Myocardial Ischemia
- Neoplasms
- Obesity
- Obstetric Labor
- Osteoporosis

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- Periodontitis
- Peripheral Vascular Diseases
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Recurrence
- Sepsis
- Skin Diseases
- Stroke
- Subarachnoid Hemorrhage
- Thromboembolism
- Thrombophilia
- Thrombosis
- Venous Thrombosis
- Vitamin K Deficiency
- Werner syndrome

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