

F10 (Human) ELISA Kit

Catalog # KA0473

Size 1 Kit

Specification

Product Description	F10 (Human) ELISA Kit is a sandwich enzyme immunoassay for the quantitative measurement of human F10.
Suitable Sample	Cell Culture Samples, CSF, Milk, Plasma, Saliva, Serum and Urine
Sample Volume	50 μ L
Label	Peroxidase-conjugated
Detection Method	Colorimetric
Assay Type	Quantitative
Calibration Range	0.781 to 50 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.

Applications

- Quantification

Gene Info — F10

Entrez GeneID	2159
Gene Name	F10
Gene Alias	FX, FXA

Gene Description	coagulation factor X
Omim ID	227600
Gene Ontology	Hyperlink
Gene Summary	This gene encodes the vitamin K-dependent coagulation factor X of the blood coagulation cascade. This factor undergoes multiple processing steps before its preproprotein is converted to a mature two-chain form by the excision of the tripeptide RKR. Two chains of the factor are held together by 1 or more disulfide bonds; the light chain contains 2 EGF-like domains, while the heavy chain contains the catalytic domain which is structurally homologous to those of the other hemostatic serine proteases. The mature factor is activated by the cleavage of the activation peptide by factor IXa (in the intrinsic pathway), or by factor VIIa (in the extrinsic pathway). The activated factor then converts prothrombin to thrombin in the presence of factor Va, Ca²⁺, and phospholipid during blood clotting. Mutations of this gene result in factor X deficiency, a hemorrhagic condition of variable severity. [provided by RefSeq]
Other Designations	OTTHUMP00000018735 Stuart-Prower factor factor Xa prothrombinase

Publication Reference

- [Importance of substrate composition, pH and other variables on tissue factor enhancement of factor VIIa activity.](#)

Neuenschwander PF, Branam DE, Morrissey JH.
Thromb Haemost 1993 Dec; 70(6):970.
- [Cloning and expression in COS-1 cells of a full-length cDNA encoding human coagulation factor X.](#)

Messier TL, Pittman DD, Long GL, Kaufman RJ, Church WR.
Gene 1991 Mar; 99(2):291.

Application: IP, Monkey, COS-1 cells
- [Activation of human factor X \(Stuart factor\) by a protease from Russell's viper venom.](#)

Di Scipio RG, Hermodson MA, Davie EW.
Biochemistry 1977 Nov; 16(24):5253.

Pathway

- [Complement and coagulation cascades](#)

Disease

- [Alzheimer disease](#)
- [Cardiovascular Diseases](#)
- [Cerebral Hemorrhage](#)
- [Chronic Disease](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hypertension](#)
- [Intracranial Hemorrhages](#)
- [Kidney Diseases](#)
- [Kidney Failure](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Osteoporosis](#)
- [Premature Birth](#)
- [Stroke](#)
- [Subarachnoid Hemorrhage](#)