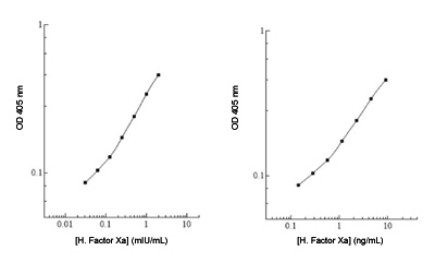
Factor Xa (Human) Chromogenic Activity Assay Kit

Catalog # KA6027 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	Factor Xa (Human) Chromogenic Activity Assay Kit is developed to determine FXa activity in human plasma, serum, and cell culture samples. The assay couples immunofunctional and direct amidolytic f unction.
Suitable Sample	Cell Culture Supernatants, Plasma and Serum.
Sample Volume	100 uL
Calibration Range	0.031 to 2.0 mIU/mL or 0.141 to 9.0 ng/mL
Reactivity	Human
Regulatory 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 unknown s. 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.

Applications

- Functional Study

Gene Info — F10

Entrez GeneID	2159
Protein Accession#	P00742
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 intrisic pathway), or by factor VIIa (in the extrinsic pathway). The activated factor then converts prothrombin to thrombin in the presence of factor Va, Ca+2, 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

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