## AssayGenie

## Product Data:

Product SKU: RPES3430
Species: Human

Size: $10 \mu \mathrm{~g}$
Expression host: Human Cells

Uniprot: P00742

Protein Information:
Molecular Mass: $\quad 78.2$ kDa
AP Molecular Mass: 94 kDa
Tag: C-Fc
Bio-activity:
Purity: $\quad>85 \%$ as determined by reducing SDS-PAGE.
Endotoxin: $\quad<1.0 \mathrm{EU}$ per $\mu \mathrm{g}$ as determined by the LAL method.
Storage: Lyophilized protein should be stored at $<-20^{\circ} \mathrm{C}$, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at $4-7^{\circ} \mathrm{C}$ for 2-7 days. Aliquots of reconstituted samples are stable at $<-20^{\circ} \mathrm{C}$ for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.
Formulation: Lyophilized from a $0.2 \mu \mathrm{~m}$ filtered solution of $20 \mathrm{mM} \mathrm{MES}, 150 \mathrm{mM} \mathrm{NaCl}, 0.2 \mathrm{mM}$ CaCl2, pH5.5.

Reconstitution: Please refer to the printed manual for detailed information.

## Application:

Synonyms: Coagulation factor 10;coagulation factor X;FX;FXA

Immunogen information:

## Background:

F10, also known as Coagulation factor X, belongs to the peptidase S1 family that is synthesized as a 488 amino acid (aa) with a signal peptide and a pro region (residues 1-40). Both the intrinsic and extrinsic pathways activate Factor X to Xa, which consists of light (residues 4179) and heavy (residues 235-488) chains linked by a disulfide bond. Coagulation factor $X$ is initially synthesized in the liver. The two chains are formed from a single-chain precursor by the excision of two Arg residues and are held together by 1 or more disulfide bonds. Forms a heterodimer with SERPINA5. F10 is a vitamin K-dependent glycoprotein that converts prothrombin to thrombin in the presence of factor Va , calcium and phospholipid during blood clotting.

