abcam

Product datasheet

Human FX ELISA kit (total FX antigen) ab272773

1 Image

Overview

Product name Human FX ELISA kit (total FX antigen)

Detection method Colorimetric

Precision

Intra-assay

Sample	n	Mean	SD	CV%
Sample 1	20	0.71ng/ml	0.039	5.44%
Sample 2	20	2.97ng/ml	0.155	5.23%
Sample 3	20	12.63ng/ml	0.095	2.45%

Sample type EDTA Plasma, Cit plasma

Assay type Quantitative

Range 0.1 ng/ml - 50 ng/ml

Recovery

Sample specific recovery

Sample type	Average %	Range
Spike	98	% - %

Assay duration Multiple steps standard assay

Species reactivity **Reacts with:** Human

Product overview Human FX ELISA kit (total FX antigen) (ab272773) is intended for the quantitative determination of total Factor X antigen in human plasma.

Human Factor X will bind to the capture antibody coated on the microtiter plate. Factor X and Xa will react with the antibody on the plate. After appropriate washing steps, polyclonal anti-human Factor X primary antibody binds to the captured protein. Excess primary antibody is washed away and bound antibody, which is proportional to the total Factor X present in the samples, is reacted with the secondary antibody. Following an additional washing step, TMB substrate is used for color development at 450nm. A standard calibration curve is prepared along with the samples to be measured using dilutions of human Factor X. Color development is proportional to the concentration of Factor X in the samples.

Factor X standard provided is calibrated against the WHO 4th International Standard.

Platform Microplate

Properties

Storage instructions Store at +4°C. Please refer to protocols.

Components	1 x 96 tests
10X Wash Buffer	1 x 50ml
Anti-Human FX Primary Antibody Lyophilized Vial	1 vial
Anti-Rabbit HRP Secondary Reagent	1 vial
FX ELISA Plate	1 unit
Human FX Standard Lyophilized Vial	1 vial
TMB Substrate	1 x 10ml

Function Factor Xa is a vitamin K-dependent glycoprotein that converts prothrombin to thrombin in the presence of factor Va, calcium and phospholipid during blood clotting.

Tissue specificity Plasma; synthesized in the liver.

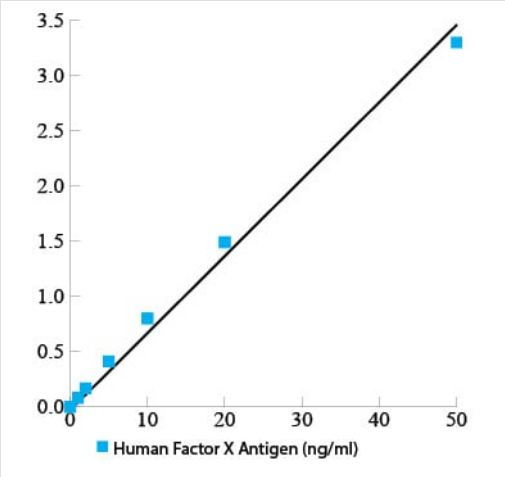
Involvement in disease Defects in F10 are the cause of factor X deficiency (FA10D) [MIM:227600]. A hemorrhagic disease with variable presentation. Affected individuals can manifest prolonged nasal and mucosal hemorrhage, menorrhagia, hematuria, and occasionally hemarthrosis. Some patients do not have clinical bleeding diathesis.

Sequence similarities Belongs to the peptidase S1 family.
Contains 2 EGF-like domains.
Contains 1 Gla (gamma-carboxy-glutamate) domain.
Contains 1 peptidase S1 domain.

Post-translational modifications The vitamin K-dependent, enzymatic carboxylation of some glutamate residues allows the modified protein to bind calcium.
N- and O-glycosylated.
The activation peptide is cleaved by factor IXa (in the intrinsic pathway), or by factor VIIa (in the extrinsic pathway).
The iron and 2-oxoglutarate dependent 3-hydroxylation of aspartate and asparagine is (R) stereospecific within EGF domains.

Cellular localization Secreted.

Images



Example data

A typical standard curve. Example only.

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