

## General Factor XII total antigen assay ELISA Kit | F12 elisa kit

Human Factor XII total antigen assay ELISA Kit

CATALOG #  
**AAA37764**

REACTIVITY  
**General**

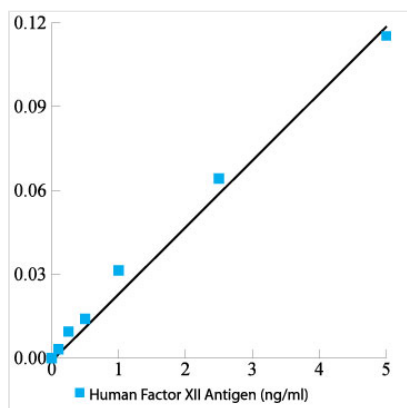
### PRODUCT SYNONYMS

Factor XII total antigen assay; Human Factor XII total antigen assay ELISA Kit; F12 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------|
| Reactivity              | General                                                                                    |
| Specificity             | These studies are currently in progress. Please contact us for more information.           |
| Form/Format             | Complete Kit                                                                               |
| Sequence Length         | 615                                                                                        |
| Samples                 | Human plasma                                                                               |
| Intra-assay Precision   | These studies are currently in progress. Please contact us for more information.           |
| Inter-assay Precision   | These studies are currently in progress. Please contact us for more information.           |
| Preparation and Storage | Store at 4 degree C. Shelf Life: 12 months from manufacture, see label for expiration date |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for F12 elisa kit | <p><b>Intended Uses:</b> This human coagulation Factor XII antigen assay is intended for the quantitative determination of total Factor XII antigen in human plasma. For research use only.</p> <p><b>Principle of the Assay:</b> Human Factor XII will bind to the affinity purified capture antibody coated on the microtiter plate. Factor XII and XIIa will react with the antibody on the plate. After appropriate washing steps, anti-human Factor XII primary antibody binds to the captured protein. Excess primary antibody is washed away and bound antibody, which is proportional to the total Factor XII 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 XII. Color development is proportional to the concentration of Factor XII in the samples.</p> <p><b>Background:</b> Factor XII (aka Hageman Factor) is a single-chain, 615 amino acid glycoprotein zymogen [1]. Factor XII is activated by kallikrein [2]. Factor XIIa converts prekallikrein to kallikrein during the intrinsic pathway of the coagulation cascade. Although Factor XII is not thought to play an essential role in normal hemostasis, lack of Factor XII in a mouse model resulted in a 'severe defect' in thrombus formation [3].</p> |
| Product Categories/Family for F12 elisa kit   | Factor XII; Human Factor XII ELISA Kits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                    |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 145275213                                                                                                                                                          |
| NCBI GeneID                      | 2161                                                                                                                                                               |
| NCBI Accession #                 | NP_000496.2                                                                                                                                                        |
| NCBI GenBank Nucleotide #        | NM_000505.3                                                                                                                                                        |
| UniProt Accession #              | P00748; P78339                                                                                                                                                     |
| Molecular Weight                 | 67,792 Da                                                                                                                                                          |
| NCBI Official Full Name          | coagulation factor XII                                                                                                                                             |
| NCBI Official Synonym Full Names | coagulation factor XII (Hageman factor)                                                                                                                            |
| NCBI Official Symbol             | F12                                                                                                                                                                |
| NCBI Official Synonym Symbols    | HAF; HAE3; HAEX                                                                                                                                                    |
| NCBI Protein Information         | coagulation factor XII; Hageman factor; beta-factor XIIa part 1; beta-factor XIIa part 2; coagulation factor XIIa heavy chain; coagulation factor XIIa light chain |
| UniProt Protein Name             | Coagulation factor XII                                                                                                                                             |
| UniProt Gene Name                | F12                                                                                                                                                                |
| UniProt Synonym Gene Names       | HAF                                                                                                                                                                |
| UniProt Entry Name               | FA12_HUMAN                                                                                                                                                         |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.