

## Human F10 ELISA Kit | F10 elisa kit

Human F10 ELISA Kit PicoKine

|                               |                            |                              |
|-------------------------------|----------------------------|------------------------------|
| CATALOG #<br><b>AAA126744</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>ELISA</b> |
|-------------------------------|----------------------------|------------------------------|

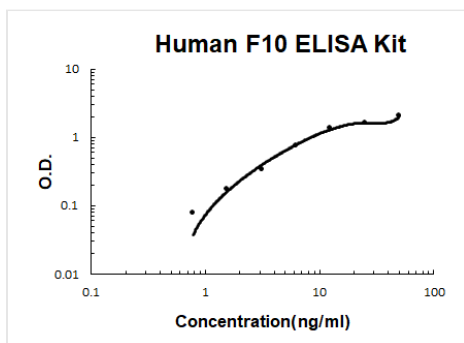
### PRODUCT SYNONYMS

F10; Human F10 ELISA Kit PicoKine; F10 elisa kit

### PRODUCT SPECIFICATIONS

|                                           |                                                                                                                                                                                                 |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                                | Human                                                                                                                                                                                           |
| Specificity                               | Natural and recombinant Human F10                                                                                                                                                               |
| Samples                                   | Cell culture supernatants, serum and plasma (heparin, EDTA)                                                                                                                                     |
| Detection Range                           | 0.78 ng/ml - 50 ng/ml                                                                                                                                                                           |
| Sensitivity                               | <20 pg/ml                                                                                                                                                                                       |
| Applicable Applications for F10 elisa kit | ELISA                                                                                                                                                                                           |
| Intra-assay Precision                     | Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.                                               |
| Inter-assay Precision                     | Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.                                           |
| Preparation and Storage                   | Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Ships with gel ice, can store for up to 3 days in room temperature. Freeze upon receiving.) |

### IMAGES



Standard Curve (Sample)

Human F10 PicoKine ELISA Kit standard curve

## ADDITIONAL INFORMATION

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| Related Product Information for F10 elisa kit | <p>Background: 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, Ca<sup>2+</sup>, and phospholipid during blood clotting. Mutations of this gene result in factor X deficiency, a hemorrhagic condition of variable severity. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar proteolytic processing to generate mature polypeptides.</p> <p>Principle of the Assay: The Picokine™ Human F10 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human F10 with a 96-well strip plate that is pre-coated with antibody specific for F10. The detection antibody is a biotinylated antibody specific for F10. The capture antibody is a monoclonal antibody from mouse and the detection antibody is a biotinylated polyclonal antibody from goat. The kit includes Human F10 protein as standards. To measure Human F10, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Human F10 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human F10 in the sample.</p> |
| Product Categories/Family for F10 elisa kit   | PicoKine ELISA Kits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                       |
|----------------------------------|-----------------------------------------------------------------------|
| NCBI GI #                        | 4503625                                                               |
| NCBI GeneID                      | 2159                                                                  |
| NCBI Accession #                 | NP_000495.1                                                           |
| NCBI GenBank Nucleotide #        | NM_000504.3                                                           |
| UniProt Accession #              | P00742; Q14340                                                        |
| Molecular Weight                 | 54,732 Da                                                             |
| NCBI Official Full Name          | coagulation factor X preproprotein                                    |
| NCBI Official Synonym Full Names | coagulation factor X                                                  |
| NCBI Official Symbol             | F10                                                                   |
| NCBI Official Synonym Symbols    | FX; FXA                                                               |
| NCBI Protein Information         | coagulation factor X; factor Xa; prothrombinase; Stuart-Prower factor |
| UniProt Protein Name             | Coagulation factor X                                                  |
| UniProt Gene Name                | F10                                                                   |
| UniProt Entry Name               | FA10_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.