

## Human Thrombin Antithrombin Complex total ELISA Kit | F2 elisa kit

Human Thrombin Antithrombin Complex total antigen assay ELISA kit

CATALOG #  
**AAA37828**

REACTIVITY  
**Human**

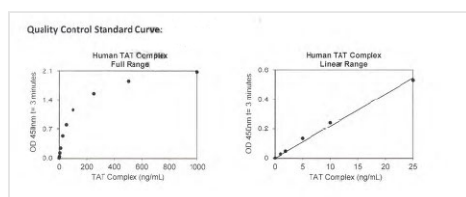
### PRODUCT SYNONYMS

Thrombin Antithrombin Complex total; Human Thrombin Antithrombin Complex total antigen assay ELISA kit; F2 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                       |
| Specificity             | This assay recognizes natural human TAT complex. Natural human thrombin, prothrombin and antithrombin II I were assayed for cross-reactivity. No significant cross-reactivity was observed. |
| Form/Format             | Complete kit                                                                                                                                                                                |
| Sequence Length         | 622                                                                                                                                                                                         |
| Sensitivity             | 0.043 ng/ml                                                                                                                                                                                 |
| 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 | <b>Recommended Storage:</b> 4 degree C<br><b>Minimum Shelf Life:</b> 12 months from manufacture, see label for expiration date<br><b>Shipping Condition:</b> Cold pack                      |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for F2 elisa kit | <p>Background: Antithrombin III is a glycosylated plasma serine protease inhibitor that forms a stoichiometric complex with coagulation cascade enzymes [1]. Thrombin is a twochain vitamin K-dependent glycosylated serine protease that is activated from prothrombin in the coagulation cascade [2]. Antithrombin III inhibits thrombin with heparin enhanced kinetics and forms a 1:1 covalent complex [3].</p> <p>Principle of the Assay: Human TAT complex in samples will bind to the anti-human thrombin capture antibody coated on the microtiter plate. After appropriate washing steps, monoclonal anti-human antithrombin primary antibody binds to TAT complex captured on the plate. Excess antibody is washed away and bound monoclonal antibody is then reacted with the secondary antibody conjugated to horseradish peroxidase. 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 TAT complex. Color development is proportional to the concentration of TAT complex in the samples. Free thrombin, prothrombin and antithrombin III will not be detected by this assay.</p> <p>Intended Uses: Human thrombin/antithrombin (TAT) complex antigen assay is intended for the quantitative determination of the covalent complex of thrombin and its inhibitor antithrombin III in human plasma and serum. For research use only.</p> |
| Product Categories/Family for F2 elisa kit   | CLOTTING FACTOR ELISA Kits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------|
| NCBI GI #                        | 4503635                                                                         |
| NCBI GeneID                      | 2147                                                                            |
| NCBI Accession #                 | NP_000497.1                                                                     |
| NCBI GenBank Nucleotide #        | NM_000506.3                                                                     |
| UniProt Accession #              | P00734; Q4QZ40; Q53H04; Q53H06; Q69EZ7; Q7Z7P3; Q9UCA1; B2R7F7; B4E1A7          |
| Molecular Weight                 | 70,037 Da                                                                       |
| NCBI Official Full Name          | prothrombin preproprotein                                                       |
| NCBI Official Synonym Full Names | coagulation factor II (thrombin)                                                |
| NCBI Official Symbol             | F2                                                                              |
| NCBI Official Synonym Symbols    | PT; THPH1; RPRGL2                                                               |
| NCBI Protein Information         | prothrombin; serine protease; prothrombin B-chain; prepro-coagulation factor II |
| UniProt Protein Name             | Prothrombin                                                                     |
| UniProt Gene Name                | F2                                                                              |
| UniProt Entry Name               | THRB_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.