Overview

Product name
Human Thrombin-Antithrombin Complex ELISA Kit (TAT)

Detection method
Colorimetric

Precision

<table>
<thead>
<tr>
<th>Sample</th>
<th>n</th>
<th>Mean</th>
<th>SD</th>
<th>CV%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall</td>
<td></td>
<td></td>
<td></td>
<td>5.6%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sample</th>
<th>n</th>
<th>Mean</th>
<th>SD</th>
<th>CV%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall</td>
<td></td>
<td></td>
<td></td>
<td>9%</td>
</tr>
</tbody>
</table>

Sample type
Cell culture supernatant, Milk, Serum, Plasma

Assay type
Sandwich (quantitative)

Sensitivity
= 0.84 ng/ml

Range
0.84 ng/ml - 120 ng/ml

Recovery
95%

Assay time
4h 00m

Assay duration
Multiple steps standard assay

Species reactivity
Reacts with: Human

Product overview
Thrombin-Antithrombin Complex (TAT) Human in vitro ELISA (Enzyme-Linked Immunosorbent Assay) kit is designed for the quantitative measurement of Thrombin-Antithrombin Complex concentrations in plasma, milk and cell culture supernatants.

A Thrombin-Antithrombin Complex specific antibody has been precoated onto 96-well plates and blocked. Standards or test samples are added to the wells and subsequently a Thrombin-Antithrombin Complex specific biotinylated detection antibody is added and then followed by washing with wash buffer. Streptavidin-Peroxidase Conjugate is added and unbound conjugates are washed away with wash buffer. TMB is then used to visualize Streptavidin-Peroxidase
enzymatic reaction. TMB is catalyzed by Streptavidin-Peroxidase to produce a blue color product that changes into yellow after adding acidic stop solution. The density of yellow coloration is directly proportional to the amount of Thrombin-Antithrombin Complex captured in plate.

The entire kit may be stored at -20°C for long term storage before reconstitution - Avoid repeated freeze-thaw cycles.

**Platform**

Microplate

**Properties**

**Storage instructions**

Store at -20°C. Please refer to protocols.

<table>
<thead>
<tr>
<th>Components</th>
<th>1 x 96 tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>100X Streptavidin-Peroxidase Conjugate</td>
<td>1 x 80µl</td>
</tr>
<tr>
<td>10X Diluent N Concentrate</td>
<td>1 x 30ml</td>
</tr>
<tr>
<td>20X Wash Buffer Concentrate</td>
<td>2 x 30ml</td>
</tr>
<tr>
<td>40X Biotinylated Human Thrombin-Antithrombin Complex Antibody</td>
<td>1 x 150µl</td>
</tr>
<tr>
<td>Chromogen Substrate</td>
<td>1 x 8ml</td>
</tr>
<tr>
<td>Sealing Tapes</td>
<td>3 units</td>
</tr>
<tr>
<td>Stop Solution</td>
<td>1 x 12ml</td>
</tr>
<tr>
<td>Thrombin-Antithrombin Complex Microplate (12 x 8 well strips)</td>
<td>1 unit</td>
</tr>
<tr>
<td>Thrombin-Antithrombin Complex Standard</td>
<td>1 vial</td>
</tr>
</tbody>
</table>

**Relevance**

Thrombin, which cleaves bonds after Arg and Lys, converts fibrinogen to fibrin and activates factors V, VII, VIII, XIII, and, in complex with thrombomodulin, protein C. Functions in blood homeostasis, inflammation and wound healing. Antithrombin: Most important serine protease inhibitor in plasma that regulates the blood coagulation cascade. Antithrombin inhibits thrombin, matriptase-3/TMPRSS7, as well as factors IXa, Xa and Xla. Its inhibitory activity is greatly enhanced in the presence of heparin.

**Cellular localization**

Secreted

**Images**
Sandwich ELISA - Thrombin-Antithrombin Complex (TAT) Human ELISA Kit

TAT measured in biological fluids, with background signal subtracted (duplicates +/- SD).

Representative Standard Curve Using ab108907.

Typical Standard Curve

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.
Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors