Human Thrombin-Antithrombin Complex ELISA Kit (TAT) ab108907

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>

**Inter-assay**

<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.

**Components**

<table>
<thead>
<tr>
<th>Components</th>
<th>Quantity</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
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.

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

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