Product datasheet

Mouse Tissue Factor ELISA Kit ab214091

Overview

Product name: Mouse Tissue Factor ELISA Kit
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>3</td>
<td></td>
<td></td>
<td>3%</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>5</td>
<td></td>
<td></td>
<td>3%</td>
</tr>
</tbody>
</table>

Sample type: Cell culture supernatant, Urine, Cell culture extracts, Tissue Extracts
Assay type: Sandwich (quantitative)
Sensitivity: 3.7 pg/ml
Range: 25 pg/ml - 1600 pg/ml

Recovery

<table>
<thead>
<tr>
<th>Sample type</th>
<th>Average %</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell culture supernatant</td>
<td>92</td>
<td>87% - 98%</td>
</tr>
<tr>
<td>Urine</td>
<td>99</td>
<td>97% - 99%</td>
</tr>
<tr>
<td>Cell culture extracts</td>
<td>119</td>
<td>117% - 122%</td>
</tr>
<tr>
<td>Mouse brain extract</td>
<td>109</td>
<td>107% - 110%</td>
</tr>
</tbody>
</table>

Assay time: 1h 30m
Assay duration: One step assay
Species reactivity
Reacts with: Mouse

Product overview

Mouse Tissue Factor ELISA Kit (ab214091) is a single-wash 90 min sandwich ELISA designed for the quantitative measurement of Tissue Factor protein in cell culture extracts, cell culture supernatant, tissue extracts, and urine. It uses our proprietary SimpleStep ELISA® technology. Quantitate Mouse Tissue Factor with 3.7 pg/ml sensitivity.

SimpleStep ELISA® technology employs capture antibodies conjugated to an affinity tag that is recognized by the monoclonal antibody used to coat our SimpleStep ELISA® plates. This approach to sandwich ELISA allows the formation of the antibody-analyte sandwich complex in a single step, significantly reducing assay time. See the SimpleStep ELISA® protocol summary in the image section for further details. Our SimpleStep ELISA® technology provides several benefits:

- Single-wash protocol reduces assay time to 90 minutes or less
- High sensitivity, specificity and reproducibility from superior antibodies
- Fully validated in biological samples
- 96-wells plate breakable into 12 x 8 wells strips

A 384-well SimpleStep ELISA® microplate (ab203359) is available to use as an alternative to the 96-well microplate provided with SimpleStep ELISA® kits.

Notes

Tissue factor plays a role in normal hemostasis by initiating the cell-surface assembly and propagation of the coagulation protease cascade. Tissue Factor initiates blood coagulation by forming a complex with circulating factor VII or VIIa. The tissue factor-VIIa complex activates factors IX or X by specific limited protolysis.

Abcam has not and does not intend to apply for the REACH Authorisation of customers’ uses of products that contain European Authorisation list (Annex XIV) substances. It is the responsibility of our customers to check the necessity of application of REACH Authorisation, and any other relevant authorisations, for their intended uses.

Platform

Pre-coated microplate (12 x 8 well strips)

Properties

Storage instructions
Store at +4°C. Please refer to protocols.

Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>10X Mouse Tissue Factor Detector Antibody</td>
<td>1 x 600µl</td>
</tr>
<tr>
<td>10X Wash Buffer PT (ab206977)</td>
<td>1 x 20ml</td>
</tr>
<tr>
<td>50X Cell Extraction Enhancer Solution (ab193971)</td>
<td>1 x 1ml</td>
</tr>
<tr>
<td>5X Cell Extraction Buffer PTR (ab193970)</td>
<td>1 x 10ml</td>
</tr>
<tr>
<td>Antibody Diluent CPR</td>
<td>1 x 6ml</td>
</tr>
<tr>
<td>Mouse Tissue Factor Capture Antibody (Lyophilized)</td>
<td>1 vial</td>
</tr>
</tbody>
</table>
Function

Initiates blood coagulation by forming a complex with circulating factor VII or VIIa. The [TF:VIIa] complex activates factors IX or X by specific limited proteolysis. TF plays a role in normal hemostasis by initiating the cell-surface assembly and propagation of the coagulation protease cascade.

Sequence similarities

Belongs to the tissue factor family.

Cellular localization

Membrane.

Images

SimpleStep ELISA technology allows the formation of the antibody-antigen complex in one single step, reducing assay time to 90 minutes. Add samples or standards and antibody mix to wells all at once, incubate, wash, and add your final substrate. See protocol for a detailed step-by-step guide.

Background-subtracted data values (mean +/- SD) are graphed.
Example of mouse Tissue Factor standard curve
Sample Diluent NS.

Background-subtracted data values (mean +/- SD) are graphed.

The concentrations of Tissue Factor were measured in duplicate and interpolated from the Tissue Factor standard curve and corrected for sample dilution. The interpolated dilution factor corrected values are plotted (mean +/- SD, n=2). The mean Tissue Factor concentration was determined to be 713 pg/mL in Mouse Brain Tissue Extract, 206 pg/mL in mouse C2C12 Cell Extract and 824 pg/mL in NIH/3T3 Cell Extract.

Interpolated concentrations of native Tissue Factor in mouse cell and tissue extract samples based on a 75 µg/mL extract load.

The concentrations of Tissue Factor were measured in duplicates, interpolated from the Tissue Factor standard curves and corrected for sample dilution. Undiluted samples are as follows: mouse brain cell culture supernatant 100%, mouse urine 100%. For mouse urine, dilutions beyond 2 fold were not analysed due to O.D. values below the O.D. values of the MDD. The interpolated dilution factor corrected values are plotted (mean +/- SD, n=2). The mean Tissue Factor concentration was determined to be 79 pg/mL in mouse brain cell culture supernatant and 11 pg/mL in mouse urine.

Interpolated concentrations of native Tissue Factor in mouse brain cell culture supernatant and mouse urine samples.

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