Overview

Product name: Mouse C Reactive Protein ELISA Kit (PTX1)
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>&lt; 10%</td>
</tr>
</tbody>
</table>

Intra-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>&lt; 10%</td>
</tr>
</tbody>
</table>

Inter-assay

Sample type: Urine, Serum, Plasma
Assay type: Sandwich (quantitative)
Sensitivity: 0.1691 ng/ml
Range: 0.78 ng/ml - 25 ng/ml

Recovery

<table>
<thead>
<tr>
<th>Sample type</th>
<th>Average %</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serum</td>
<td>&gt; 85</td>
<td>% - %</td>
</tr>
</tbody>
</table>

Assay duration: Multiple steps standard assay
Species reactivity: Reacts with: Mouse

Product overview

Abcam's C Reactive Protein (PTX1) Mouse ELISA kit is a highly sensitive two-site enzyme linked immunoassay (ELISA) for measuring C Reactive Protein in mouse biological samples.

In this assay the C Reactive Protein present in samples reacts with the anti-C Reactive Protein antibodies which have been adsorbed to the surface of polystyrene microtitre wells. After the removal of unbound proteins by washing, anti-C Reactive Protein antibodies conjugated with horseradish peroxidase (HRP), are added. These enzyme-labeled antibodies form complexes...
with the previously bound C Reactive Protein. Following another washing step, the enzyme bound to the immunosorbent is assayed by the addition of a chromogenic substrate, 3,3',5,5'-tetramethylbenzidine (TMB). The quantity of bound enzyme varies directly with the concentration of C Reactive Protein in the sample tested; thus, the absorbance, at 450 nm, is a measure of the concentration of C Reactive Protein in the test sample. The quantity of C Reactive Protein in the test sample can be interpolated from the standard curve constructed from the standards, and corrected for sample dilution.

Platform
Microplate

Properties

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

Components

<table>
<thead>
<tr>
<th>Components</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>100X HRP-conjugated anti-mouse C Reactive Protein antibody</td>
<td>1 x 150µl</td>
</tr>
<tr>
<td>20X Wash Buffer Concentrate</td>
<td>1 x 50ml</td>
</tr>
<tr>
<td>5X Diluent Concentrate</td>
<td>1 x 50ml</td>
</tr>
<tr>
<td>Chromogen Substrate Solution</td>
<td>1 x 12ml</td>
</tr>
<tr>
<td>Mouse C Reactive Protein Calibrator (Lyophilized)</td>
<td>1 vial</td>
</tr>
<tr>
<td>Mouse C Reactive Protein ELISA Microplate</td>
<td>1 unit</td>
</tr>
<tr>
<td>Stop Solution</td>
<td>1 x 12ml</td>
</tr>
</tbody>
</table>

Function
Displays several functions associated with host defense: it promotes agglutination, bacterial capsular swelling, phagocytosis and complement fixation through its calcium-dependent binding to phosphorylcholine. Can interact with DNA and histones and may scavenge nuclear material released from damaged circulating cells.

Tissue specificity
Found in plasma.

Sequence similarities
Belongs to the pentaxin family.
Contains 1 pentaxin domain.

Cellular localization
Secreted.

Images

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Representative standard curve using ab157712 C Reactive Protein Mouse ELISA kit

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