**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>Intra-assay</td>
<td></td>
<td></td>
<td></td>
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<td>Overall</td>
<td></td>
<td></td>
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</table>

### Sample type

- Urine, Serum, Plasma

### Assay type

- Sandwich (quantitative)

### Sensitivity

- 0.169 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>Component</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.
Representative standard curve using ab157712 C Reactive Protein Mouse ELISA kit

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