Overview

Product name: Mouse Haptoglobin ELISA Kit
Detection method: Colorimetric

<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>

Precision

<table>
<thead>
<tr>
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<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>

Sample type: Serum, Plasma
Assay type: Sandwich (quantitative)
Sensitivity: 0.484 ng/ml
Range: 1.95 ng/ml - 125 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:

Mouse Haptoglobin ELISA kit is designed for the quantitative measurement of Haptoglobin in mouse serum, plasma and other biological samples.

In this assay the Haptoglobin present in samples reacts with the anti-Haptoglobin antibodies which have been adsorbed to the surface of polystyrene microtiter wells. After the removal of
unbound proteins by washing, anti-Haptoglobin antibodies conjugated with horseradish peroxidase (HRP) are added. These enzyme-labeled antibodies form complexes with the previously bound Haptoglobin. 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 Haptoglobin in the sample tested; thus, the absorbance, at 450 nm, is a measure of the concentration of Haptoglobin in the test sample. The quantity of Haptoglobin 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>1 x 96 tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>100X HRP-conjugated anti-mouse Haptoglobin 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 Haptoglobin Calibrator (lyophilized)</td>
<td>1 vial</td>
</tr>
<tr>
<td>Mouse Haptoglobin ELISA Microplate</td>
<td>1 unit</td>
</tr>
<tr>
<td>Stop Solution</td>
<td>1 x 12ml</td>
</tr>
</tbody>
</table>

**Function**
Haptoglobin combines with free plasma hemoglobin, preventing loss of iron through the kidneys and protecting the kidneys from damage by hemoglobin, while making the hemoglobin accessible to degradative enzymes. Uncleaved haptoglobin, also known as zonulin, plays a role in intestinal permeability, allowing intercellular tight junction disassembly, and controlling the equilibrium between tolerance and immunity to non-self antigens.

**Tissue specificity**
Expressed by the liver and secreted in plasma.

**Involvement in disease**
Defects in HP are the cause of anhaptoglobinemia (AHP) [MIM:614081]. AHP is a condition characterized by the absence of the serum glycoprotein haptoglobin. Serum levels of haptoglobin vary among normal persons: levels are low in the neonatal period and in the elderly, differ by population, and can be influenced by environmental factors, such as infection. Secondary hypohaptoglobinemia can occur as a consequence of hemolysis, during which haptoglobin binds to free hemoglobin.

**Sequence similarities**
Belongs to the peptidase S1 family.
Contains 1 peptidase S1 domain.
Contains 2 Sushi (CCP/SCR) domains.

**Cellular localization**
Secreted.
 Representative standard curve using ab157714 Haptoglobin Mouse ELISA kit

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