Product datasheet

Human IgA ELISA Kit ab137980

1 References 2 Images

Overview

Product name: Human IgA 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>5%</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>10%</td>
</tr>
</tbody>
</table>

Inter-assay

Sample type: Cell culture supernatant, Saliva, Milk, Urine, Serum, Plasma
Assay type: Sandwich (quantitative)
Sensitivity: 0.5 ng/ml
Range: 1.56 ng/ml - 100 ng/ml
Recovery: 97%
Assay time: 4h 0m
Assay duration: Multiple steps standard assay

Reacts with: Human

Product overview:

Human IgA in vitro ELISA (Enzyme-Linked Immunosorbent Assay) kit is designed for the quantitative measurement of IgA in plasma, serum, urine, saliva, milk, and cell culture supernatants.

An IgA specific antibody has been precoated onto 96-well plates and blocked. Standards or test samples are added to the wells and subsequently an IgA 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 IgA captured in plate.
Get higher sensitivity in only 90 minutes with Human IgA ELISA Kit (ab196263) from our SimpleStep ELISA® range.

**Tested applications**

**Platform**

Suitable for: Sandwich ELISA

Microplate

**Properties**

**Storage instructions**

Store at -20°C. Please refer to protocols.

**Components**

<table>
<thead>
<tr>
<th>Components</th>
<th>1 x 96 tests</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>50X Biotinylated Human IgA Antibody</td>
<td>1 x 120µl</td>
</tr>
<tr>
<td>Chromogen Substrate</td>
<td>1 x 8ml</td>
</tr>
<tr>
<td>IgA Microplate (12 x 8 well strips)</td>
<td>1 unit</td>
</tr>
<tr>
<td>IgA Standard</td>
<td>1 vial</td>
</tr>
<tr>
<td>Sealing Tapes</td>
<td>3 units</td>
</tr>
<tr>
<td>Stop Solution</td>
<td>1 x 12ml</td>
</tr>
</tbody>
</table>

**Relevance**

Human IgA (immunoglobulin A) is a glycosylated protein of 160 kDa and is produced as a monomer or as a J chain linked dimer. Monomeric IgA constitutes 5-15 % of the serum immunoglobulins whereas dimeric IgA is localized to mucosa surfaces such as saliva, gastrointestinal secretion, bronchial fluids and milk. Mucosal IgA plays a major role in host defence by neutralising infectious agents at mucosal surfaces. The production is usually local and antigen specific IgA producing B cells can be found in regions under the lamina propria where they mature into dimeric IgA producing plasma cells. IgA deficiency is the most common immunodeficiency that may affect both serum and mucosal produced IgA.

**Applications**

Our Abpromise guarantee covers the use of ab137980 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
**Application**  
Sandwich ELISA

**Abreviews**  
Use at an assay dependent concentration.

**Notes**

**Images**

IgA measured in biological fluids, background signal subtracted (duplicates +/- SD).

[Representative Standard Curve using ab137980]

Typical Standard Curve

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