The RD199145100R Human Anti-IgA isotype IgG ELISA is a sandwich enzyme immunoassay for the quantitative measurement of human anti-IgA antibodies in the IgG class.

- The total assay time is less than 3 hours
- The kit measures IgG anti-IgA antibodies in serum and plasma (EDTA, citrate, heparin)
- Assay format is 96 wells
- Calibrator is human serum based
- Quality Controls are human serum based. No animal sera are used
- Components of the kit are provided ready to use, concentrated or lyophilized

**Intended use**

- Hematology and blood transfusion, blood derivatives, replacement therapy
- Immunology – immunodeficiency and substitution therapy
- Autoimmunity
- Immune Response
- Infection and Inflammation
- Transplantation
**Immunoassays**

**Test principle**

Human polyclonal immunoglobulins A (IgA) are bound to the microplate wells. Calibrators, control sera and samples of sera are pipetted into the wells and incubated. Anti-IgA antibodies present in the samples are bound to immobilized IgA molecules. The unbound substances are removed by the washing step. The specific polyclonal antibody against human immunoglobulin G (IgG) is then added into the wells. This antibody is conjugated with horseradish peroxidase (HRP) and it is linked to the immobilized complex IgA – IgG anti-IgA during incubation. The unbound conjugate is removed during the subsequent washing step, and then the substrate solution tetramethylbenzidine (TMB) is added into the wells. The enzyme reaction causes the solution in the wells to turn color (blue) and the intensity of the color is directly proportional to the amount of linked IgG anti-IgA antibodies. Development of the color is stopped by an acid stop reagent, and the absorbance of the resulting yellow product is measured. The concentration of IgG anti-IgA antibodies in unknown samples is determined from the standard curve, which is constructed by plotting absorbance values of calibrators against their known concentration.

**Summary of protocol**

- Prepare set of Calibrators
- Dilute Samples 100×
- Add 100 μl Calibrators, QCs and Samples
- Incubate at 37°C for 1 hour, no shaking.
- Wash plate 3 times
- Add 100 μl Conjugate Solution
- Incubate at RT (ca. 25°C) for 1 hour, no shaking.
- Wash plate 3 times
- Add 100 μl Substrate Solution
- Incubate at RT for 10 min
- Add 100 μl stop solution
- Read absorbance and calculate results

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**HUMAN ANTI-IGA ISOTYPE IGG ELISA**

**Cat.No.: RD199145100R**

<table>
<thead>
<tr>
<th>Assay format</th>
<th>Sandwich ELISA, HRP-labelled antibody, 96 wells/kit</th>
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</thead>
<tbody>
<tr>
<td>Samples</td>
<td>Serum, Plasma-Citrate, Plasma-EDTA, Plasma-Heparin</td>
</tr>
<tr>
<td>Controls</td>
<td>QC-positive, QC-negative</td>
</tr>
<tr>
<td>Standards</td>
<td>1.56–100 U/ml</td>
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<tr>
<td>Limit of detection</td>
<td>0.71 U/ml</td>
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</tbody>
</table>

![Graph showing absorbance at 450 nm](image)

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