**Product datasheet**

**Rat IgE ELISA Kit ab157736**

**Overview**

**Product name** Rat IgE ELISA Kit

**Detection method** Colorimetric

**Precision**

<table>
<thead>
<tr>
<th>Sample Type</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>

**Sample type** Serum, Plasma

**Assay type** Sandwich (quantitative)

**Sensitivity** 1.4192 ng/ml

**Range** 1 ng/ml - 32 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: Rat

**Product overview** Abcam’s IgE Rat ELISA kit is an *in vitro* enzyme-linked immunosorbent assay (ELISA) for the quantitative measurement of IgE in rat samples.

In this assay the IgE present in samples reacts with the anti-IgE antibodies which have been adsorbed to the surface of polystyrene microtitre wells. After the removal of unbound proteins by washing, anti-IgE antibodies conjugated with horseradish peroxidase (HRP) are added. These enzyme-labeled antibodies form complexes with the previously bound IgE. 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 IgE in the sample tested; thus, the absorbance, at 450 nm, is a measure of the concentration of IgE in the test sample. The quantity of IgE 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.

<table>
<thead>
<tr>
<th>Components</th>
<th>1 x 96 tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>100X HRP-conjugated anti-rat IgE 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>Lyophilized Rat IgE Calibrator</td>
<td>1 vial</td>
</tr>
<tr>
<td>Rat IgE ELISA Microplate</td>
<td>1 unit</td>
</tr>
<tr>
<td>Stop Solution</td>
<td>1 x 12ml</td>
</tr>
</tbody>
</table>

**Relevance**
IgE is the class of antibodies produced in the lungs, skin, and mucous membranes. It may protect against parasite invasion, but it is a major factor in allergic reactions. The antigen-specific IgE interacts with mast cells and eosinophils, triggers the release of histamine, leukotrienes and other substances that lead to the itching, sneezing and congestion of allergies - and the life threatening respiratory distress of asthma and anaphylactic shock.

**Cellular localization**
Secreted

**Images**

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IgE measured in biological fluids showing quantity (ng) per mL of tested sample

Standard curve: mean of duplicates (+/- SD) with background reads subtracted.

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