Rat Prolactin R ELISA Kit (PRLR) ab113351

Overview

Product name: Rat Prolactin R ELISA Kit (PRLR)
Detection method: Colorimetric
Sample type: Cell culture supernatant
Assay type: Sandwich (quantitative)
Sensitivity: < 0.4 ng/ml
Range: 0.512 ng/ml - 50 ng/ml
Recovery: 100%

Sample specific recovery:

<table>
<thead>
<tr>
<th>Sample type</th>
<th>Average %</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell culture supernatant</td>
<td>125.4</td>
<td>117% - 141%</td>
</tr>
</tbody>
</table>

Assay duration: Multiple steps standard assay
Species reactivity: Reacts with: Rat

Product overview:

Abcam’s Prolactin R Rat ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of rat Prolactin R in cell culture supernatants.

This assay employs an antibody specific for rat Prolactin R coated on a 96-well plate. Standards and samples are pipetted into the wells and Prolactin R present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-rat Prolactin R antibody is added. After washing away unbound biotinylated antibody, HRP conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of Prolactin R bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm.

We have not been able to detect the endogenous Rat Prolactin R in normal serum with ab113351, only in serum spiked with Rat Prolactin R.

Notes: Note: very low signal were obtained in normal plasma.

Tested applications: Suitable for: Sandwich ELISA
Platform: Microplate
**Storage instructions**  
Store at -20°C. Please refer to protocols.

**Function**  
This is a receptor for the anterior pituitary hormone prolactin (PRL). Isoform 4 is unable to transduce prolactin signaling. Isoform 6 is unable to transduce prolactin signaling.

**Tissue specificity**  
Expressed in breast, placenta, kidney, liver and pancreas.

**Sequence similarities**  
Belongs to the type I cytokine receptor family. Type 1 subfamily. Contains 2 fibronectin type-III domains.

**Domain**  
The WSXWS motif appears to be necessary for proper protein folding and thereby efficient intracellular transport and cell-surface receptor binding. The box 1 motif is required for JAK interaction and/or activation.

**Cellular localization**  
Secreted and Membrane.

**Applications**  
Our Abpromise guarantee covers the use of ab113351 in the following tested applications.  
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sandwich ELISA</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
</tr>
</tbody>
</table>

**Properties**

**Components**  

<table>
<thead>
<tr>
<th>Component</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>20X Wash Buffer Concentrate</td>
<td>1 x 25ml</td>
</tr>
<tr>
<td>400X HRP-Streptavidin Concentrate</td>
<td>1 x 200µl</td>
</tr>
<tr>
<td>5X Assay Diluent B</td>
<td>1 x 15ml</td>
</tr>
<tr>
<td>5X Assay Diluent D</td>
<td>1 x 15ml</td>
</tr>
<tr>
<td>Biotinylated anti-rat Prolactin R</td>
<td>2 vials</td>
</tr>
<tr>
<td>Prolactin R Microplate (12 x 8 wells)</td>
<td>1 unit</td>
</tr>
<tr>
<td>Recombinant rat Prolactin R Standard (lyophilized)</td>
<td>2 vials</td>
</tr>
<tr>
<td>Stop Solution</td>
<td>1 x 8ml</td>
</tr>
<tr>
<td>TMB One-Step Substrate Reagent</td>
<td>1 x 12ml</td>
</tr>
</tbody>
</table>

**Images**
Representative standard curve using ab113351

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