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.

Platform: Microplate
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.

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

Properties

<table>
<thead>
<tr>
<th>Components</th>
<th>1 x 96 tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>20X Wash Buffer</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>
Representative standard curve using ab113351

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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