**Overview**

**Product name**  
Human Procalcitonin ELISA Kit

**Detection method**  
Colorimetric

**Sample type**  
Cell culture supernatant, Plasma

**Assay type**  
Sandwich (quantitative)

**Sensitivity**  
< 20 pg/ml

**Range**  
27.43 pg/ml - 20000 pg/ml

**Recovery**  
83 %

**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>100.5</td>
<td>80% - 111%</td>
</tr>
<tr>
<td>Plasma</td>
<td>72.35</td>
<td>65% - 88%</td>
</tr>
</tbody>
</table>

**Assay duration**  
Multiple steps standard assay

**Species reactivity**  
Reacts with: Human

**Product overview**

Abcam’s Procalcitonin Human ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Human Procalcitonin in plasma and cell culture supernatants. (Human Procalcitonin concentration is pretty low in normal plasma, it may not be detected in this assay).

This assay employs an antibody specific for Human Procalcitonin coated on a 96-well plate. Standards and samples are pipetted into the wells and Procalcitonin present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Human Procalcitonin 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 Procalcitonin 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 endogenous Human Procalcitonin in normal serum with ab100630, only in serum spiked with Human Procalcitonin.
Optimization may be required with urine samples.

Platform

Microplate

Properties

Storage instructions

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

<table>
<thead>
<tr>
<th>Components</th>
<th>1 x 96 tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>20X Wash Buffer Concentrate</td>
<td>1 x 25ml</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>700X HRP-Streptavidin Concentrate</td>
<td>1 x 200µl</td>
</tr>
<tr>
<td>Assay Diluent A</td>
<td>1 x 30ml</td>
</tr>
<tr>
<td>Biotinylated anti-Human Procalcitonin (lyophilized)</td>
<td>2 vials</td>
</tr>
<tr>
<td>Procalcitonin Microplate (12 x 8 wells)</td>
<td>1 unit</td>
</tr>
<tr>
<td>Recombinant Human Procalcitonin 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 ab100630.

Typical Standard Curve
Representative Standard Curve using ab100630.

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

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