# Human PSA ELISA Kit (KLK3) ab113327

## Overview

**Product name**
Human PSA ELISA Kit (KLK3)

**Detection method**
Colorimetric

**Precision**

<table>
<thead>
<tr>
<th>Sample</th>
<th>n</th>
<th>Mean</th>
<th>SD</th>
<th>CV%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intra-assay</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overall</td>
<td></td>
<td></td>
<td></td>
<td>&lt; 10%</td>
</tr>
<tr>
<td>Inter-assay</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overall</td>
<td></td>
<td></td>
<td></td>
<td>&lt; 12%</td>
</tr>
</tbody>
</table>

**Sample type**
Cell culture supernatant, Serum, Plasma

**Assay type**
Sandwich (quantitative)

**Sensitivity**
< 8 pg/ml

**Range**
10.24 pg/ml - 2500 pg/ml

**Recovery**
93%

**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>95.25</td>
<td>81% - 108%</td>
</tr>
<tr>
<td>Serum</td>
<td>105.4</td>
<td>94% - 112%</td>
</tr>
<tr>
<td>Plasma</td>
<td>80.63</td>
<td>72% - 94%</td>
</tr>
</tbody>
</table>

**Assay duration**
Multiple steps standard assay

**Species reactivity**
Reacts with: Human

**Product overview**
Abcam’s PSA Human ELISA (Enzyme-Linked Immunosorbent Assay) kit is an *in vitro* enzyme-linked immunosorbent assay for the quantitative measurement of Human PSA in serum, plasma and cell culture supernatants.
This assay employs an antibody specific for Human PSA coated on a 96-well plate. Standards and samples are pipetted into the wells and PSA present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Human PSA 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 PSA bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm.

Get results in 90 minutes with Human Total Prostate Specific Antigen ELISA Kit (ab188388) from our SimpleStep ELISA® range.

**Notes**
Optimization may be required with urine samples.

**Tested applications**
*Suitable for:* Sandwich ELISA

**Platform**
Microplate

**Properties**

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

<table>
<thead>
<tr>
<th>Components</th>
<th>Identifier</th>
<th>1 x 96 tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>20X Wash Buffer Concentrate</td>
<td></td>
<td>1 x 25ml</td>
</tr>
<tr>
<td>500X HRP-Streptavidin Concentrate</td>
<td></td>
<td>1 x 200µl</td>
</tr>
<tr>
<td>5X Assay Diluent B</td>
<td></td>
<td>1 x 15ml</td>
</tr>
<tr>
<td>Assay Diluent A</td>
<td></td>
<td>1 x 30ml</td>
</tr>
<tr>
<td>Biotinylated anti-Human PSA (lyophilized)</td>
<td>Item F</td>
<td>2 vials</td>
</tr>
<tr>
<td>PSA Microplate (12 x 8 wells)</td>
<td>Item A</td>
<td>1 unit</td>
</tr>
<tr>
<td>Recombinant Human PSA Standard (lyophilized)</td>
<td></td>
<td>2 vials</td>
</tr>
<tr>
<td>Stop Solution</td>
<td></td>
<td>1 x 8ml</td>
</tr>
<tr>
<td>TMB One-Step Substrate Reagent</td>
<td></td>
<td>1 x 12ml</td>
</tr>
</tbody>
</table>

**Function**
Hydrolyzes semenogelin-1 thus leading to the liquefaction of the seminal coagulum.

**Sequence similarities**
Belongs to the peptidase S1 family. Kallikrein subfamily.
Contains 1 peptidase S1 domain.

**Cellular localization**
Secreted.

**Applications**
Our Abpromise guarantee covers the use of ab113327 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>

**Images**

PSA (KLK3) measured in various biological fluids showing quantity (pg) per mL of sample tested

**Sandwich ELISA - Human PSA (ab113327)**

**Representative standard curve using ab113327**

**Typical Standard Curve**

**Representative standard curve using ab113327**

**Typical Standard Curve**

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- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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