**Product datasheet**

**Human PSA ELISA Kit (KLK3) ab113327**

3 References  3 Images

### Overview

<table>
<thead>
<tr>
<th><strong>Product name</strong></th>
<th>Human PSA ELISA Kit (KLK3)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Detection method</strong></td>
<td>Colorimetric</td>
</tr>
</tbody>
</table>

#### Precision

<table>
<thead>
<tr>
<th>Sample</th>
<th>n</th>
<th>Mean</th>
<th>SD</th>
<th>CV%</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Intra-assay</strong></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><strong>Inter-assay</strong></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.
**Application** | **Abreviews** | **Notes**
--- | --- | ---
Sandwich ELISA | Use at an assay dependent concentration.

### Images

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

**Typical Standard Curve**

**Representative standard curve using ab113327**

**Representative standard curve using ab113327**

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"
Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors