

Human PSA Antibody Pair Set

| | | | |
|--------------------|---|---------------------|-------|
| Catalog No. | E-KAB-0136 | Applications | ELISA |
| Synonyms | APS, KLK2A1, hK3, Kallikrein-3, Kallikrein-Related Peptidase 3, Gamma-seminoprotein | | |

Kit components & Storage

| Title | Specifications | Storage |
|---------------------------------------|----------------|--|
| Human PSA Capture Antibody | 1 vial, 100 µg | Store at -20℃ for one year. Avoid freeze / thaw cycles. |
| Human PSA Detection Antibody (Biotin) | 1 vial, 50 µL | Store at -20℃ for one year. Avoid freeze / thaw cycles. |

Note: Centrifuge before opening to ensure complete recovery of vial contents.

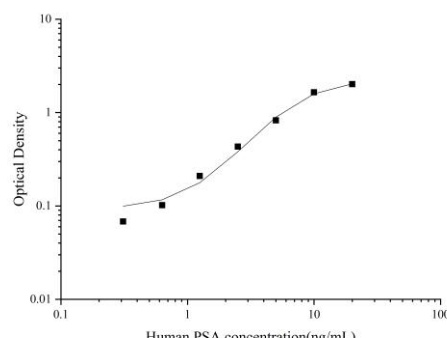
Product Information

| Items | | Characteristic (E-KAB-0136) | |
|-----------------------|---------------|--|---|
| | | Human PSA Capture Antibody | Human PSA Detection Antibody (Biotin) |
| Immunogen Information | Immunogen | Native Protein | Native Protein |
| | Swissprot | P07288 | |
| Product details | Reactivity | Human | Human |
| | Host | Mouse | Mouse |
| | Conjugation | Unconjugated | Biotin |
| | Concentration | 0.5mg/mL | / |
| | Buffer | PBS with 0.04% Proclin 300, 50% glycerol, pH 7.4 | PBS with 0.04% Proclin 300, 1% protective protein, 50% glycerol, pH 7.4 |
| | Purify | Protein A | Protein A |
| | Specificity | Detects Human PSA in ELISAs. | |

For Research Use Only

Applications

Human PSA Sandwich ELISA Assay:

| | Recommended Concentration/Dilution | Reagent | Images | | | | | | | | | | | | | | | | |
|---------------------------------|------------------------------------|---------------------------------------|--|---------------------------------|-----------------|-----|------|-----|-----|---|-----|---|-----|---|-----|----|-----|----|-----|
| ELISA Capture | 0.5-4μg/mL | Human PSA Capture Antibody |  <table><caption>Approximate data points from the standard curve</caption><thead><tr><th>Human PSA concentration (ng/mL)</th><th>Optical Density</th></tr></thead><tbody><tr><td>0.1</td><td>0.05</td></tr><tr><td>0.5</td><td>0.1</td></tr><tr><td>1</td><td>0.2</td></tr><tr><td>2</td><td>0.4</td></tr><tr><td>5</td><td>0.8</td></tr><tr><td>10</td><td>1.5</td></tr><tr><td>20</td><td>2.0</td></tr></tbody></table> | Human PSA concentration (ng/mL) | Optical Density | 0.1 | 0.05 | 0.5 | 0.1 | 1 | 0.2 | 2 | 0.4 | 5 | 0.8 | 10 | 1.5 | 20 | 2.0 |
| Human PSA concentration (ng/mL) | Optical Density | | | | | | | | | | | | | | | | | | |
| 0.1 | 0.05 | | | | | | | | | | | | | | | | | | |
| 0.5 | 0.1 | | | | | | | | | | | | | | | | | | |
| 1 | 0.2 | | | | | | | | | | | | | | | | | | |
| 2 | 0.4 | | | | | | | | | | | | | | | | | | |
| 5 | 0.8 | | | | | | | | | | | | | | | | | | |
| 10 | 1.5 | | | | | | | | | | | | | | | | | | |
| 20 | 2.0 | | | | | | | | | | | | | | | | | | |
| ELISA Detection | 1:1000-1:10000 | Human PSA Detection Antibody (Biotin) | | | | | | | | | | | | | | | | | |

Note: This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

Background

KLK3 is a member of the kallikrein-related peptidase family secreted by the epithelial cells of the prostate gland and lead to the liquefaction of the seminal coagulum. It is thought to function normally in the liquefaction of seminal coagulum, presumably by hydrolysis of the high molecular mass seminal vesicle protein. Serum level of this protein, called PSA in the clinical setting, is useful in the diagnosis and monitoring of prostatic carcinoma.

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