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# Anti-PSA Antibody (1A7D4)

Mouse Monoclonal Antibody
Catalog # ABV12080

## Product Information

| | |
|---|---|
| **Application** | E |
| **Primary Accession** | P07288 |
| **Reactivity** | Human |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype** | Mouse IgG1, κ |
| **Clone Names** | 1A7D4 |
| **Calculated MW** | 28741 |

## Additional Information

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|---|---|
| **Gene ID** | 354 |
| **Positive Control** | ELISA |
| **Other Names** | Gamma-seminoprotein, Seminin, Kallikrein-3, P-30 antigen, Semenogelase, APS |
| **Target/Specificity** | Prostate-specific antigen |
| **Antibody Form** | Liquid |
| **Appearance** | Colorless liquid |
| **Reconstitution & Storage** | -20 °C |
| **Background Descriptions** | |
| **Precautions** | Anti-PSA Antibody (1A7D4) is for research use only and not for use in diagnostic or therapeutic procedures. |

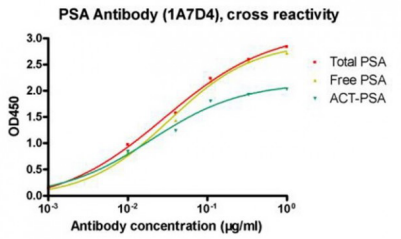
## Protein Information

| | |
|---|---|
| **Name** | KLK3 |
| **Synonyms** | APS |
| **Function** | Hydrolyzes semenogelin-1 thus leading to the liquefaction of the seminal coagulum. |
| **Cellular Location** | Secreted. |

## Background

Prostate-specific antigen (PSA) is also known as kallikrein III, seminin, semenogelase, γ-seminoprotein and P-30 antigen. It is a serine protease enzyme produced by the cells of the prostate gland. Most of PSA in the blood which is bound to serum proteins is known as total PSA, while a small amount which is not protein bound to is called free PSA. PSA liquifies the semen in the seminal coagulum and allows sperm to swim freely. PSA is often elevated in the presence of prostate cancer and in other prostate disorders. A blood test to measure PSA is considered to be the most effective test currently available for the early detection of prostate cancer. Furthermore, rising levels of PSA over time are associated with both localized and metastatic prostate cancer (CaP). Human PSA monoclonal antibody, is produced from the hybridoma resulting from fusion of SP2/0-Ag14 myeloma and B-lymphocytes obtained from mouse immunized with human total PSA purified from semenal plasma.

## Images




Cross-reactivity of PSA antibody (1A7D4) by Indirect ELISA

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.