

## Human free PSA Antibody, mAb, Mouse

### Products information

Cat.No	Clone	Ig Subclass
A01791	4E9C2	IgG1, $\kappa$
A01792	1D3E6	IgG1, $\kappa$
A01793	1B4A5	IgG1, $\kappa$

**Host:** Mouse

**Immunogen:** free PSA protein purified from human seminal fluid (Swiss-Prot: P07288).

**Purification:** Protein A affinity column

**Conjugation:** Unconjugated

**Version:** 03/22/2012

### Description

Prostate-specific antigen (PSA) is produced by cells of the prostate gland. The PSA level increases in the blood of men who have prostate cancer, benign prostatic hyperplasia, or infection or inflammation of the prostate. It exists in the blood in two forms of free PSA and total PSA (PSA attached to a protein molecule). Free PSA increases more in benign prostatic hypertrophy while total PSA is associated with cancer. When Prostate cancer occurs, PSA often ranges from 2.5 to 10 ng/ml. The free PSA and total PSA are tested simultaneously to identify what kind of prostate problem a man has.

**GenScript Human free PSA Antibody, mAb, Mouse** is produced from the hybridoma resulting from fusion of SP2/0-Ag14 myeloma and B-lymphocytes obtained from mouse immunized with free PSA protein purified from human seminal fluid (Swiss-Prot: P07288).

### Species Reactivity

Free PSA monoclonal antibodies (4E9C2, 1D3E6 and 1B4A5) recognize human free PSA protein.

### Sensitivity

The limit of detection for antibody pairs is less than 5 pg/ml.

### Product Buffer

PBS, pH 7.4, containing 0.02% sodium azide.

### Storage

**GenScript Human free PSA Antibody, mAb, Mouse** should be stored at -20°C or below until use. Avoid repeated freezing and thawing cycles.

### Applications

These antibodies are perfect choice for in vitro diagnostic assay development. They are prepared for non-clinical research use only. The recommended pairs are based on our laboratory results.

ELISA Capture: 1-10  $\mu$ g/ml

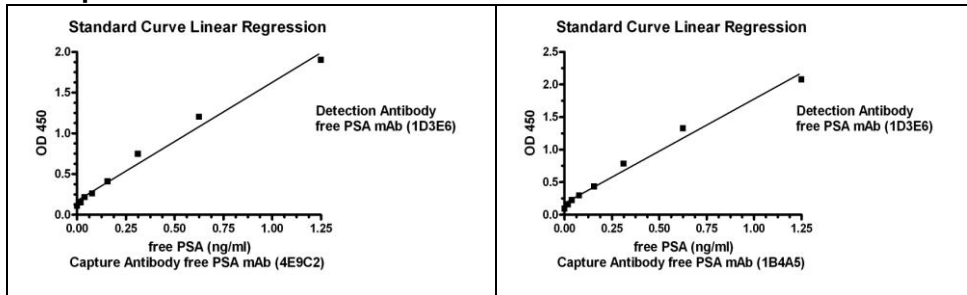
ELISA Detection: 0.05-0.2  $\mu$ g/ml

Recommended antibody pairing for sandwich immunoassay:

Capture \ Detection	A01791 (4E9C2)	A01792 (1D3E6)	A01793 (1B4A5)
A01791 (4E9C2)	-	-	-
A01792 (1D3E6)	+	-	+
A01793 (1B4A5)	-	-	-

\*\* For non-clinical research use only. \*\*

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**Example**


Antibody pairs analysis of free PSA monoclonal antibodies by Sandwich ELISA:

**General conditions:**

1. Microplate was incubated with a capture antibody against free PSA and blocked with PBS containing 1% BSA, followed by 3 washing cycles.
2. Incubation with free PSA protein followed by 3 washing cycles.
3. Incubation with Biotin labeled detection antibody against free PSA, followed by 3 washing cycles.
4. Incubation with Streptavidin-HRP, followed by 3 washing cycles.
5. Colorimetric determination of bound peroxidase activity.

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