

Rev04  
 Update: Oct,19,2022

**DATASHEET**

# Human free PSA Antibody (4E9C2), mAb, Mouse

Cat. No.: A01791

## Overview

<b>Specificity</b>	Free PSA monoclonal antibodies (4E9C2, 1D3E6 and 1B4A5) recognize human free PSA protein.
<b>Host Species</b>	Mouse
<b>Immunogen</b>	free PSA protein purified from human seminal fluid (Swiss-Prot: P07288).
<b>Conjugate</b>	Unconjugated

## Applications

Application	Recommended Usage
Sandwich ELISA	Capture: 1-10 µg/ml Detection: 0.05-0.2 µg/ml

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

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

The above data was achieved by Sandwich ELISA. '+' means reaction and '-' means no reaction. The number of '+' represents reaction intensity.

## Properties

<b>Form</b>	Liquid
<b>Storage Buffer</b>	in PBS buffer, pH 7.4, containing 0.02% sodium azide.

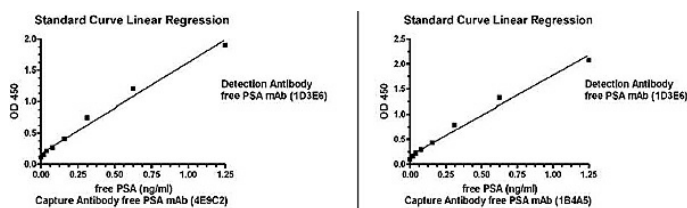
**GenScript USA, Inc.**

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<b>Concentration</b>	0.5 mg/ml
<b>Storage Instructions</b>	For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.
<b>Purification</b>	Protein A affinity column
<b>Isotype</b>	Mouse IgG1, $\kappa$
<b>Clonality</b>	Monoclonal
<b>Clone ID</b>	4E9C2

## Examples



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.

## Background

**Target Background :** 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)

**Synonyms :** Human free PSA Antibody (4E9C2), mAb, Mouse;

**For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.**