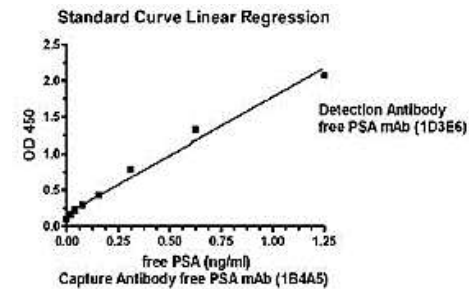


Anti-free PSA Antibody (1B4A5)

CATALOG NO:	A1352-1000
AMOUNT:	1 mg
ALTRERNAME NAMES:	Gamma-seminoprotein, Semin, Kallikrein-3, P-30 antigen, Semenogelase, APS
IMMUNOGEN:	Free PSA protein purified from human seminal fluid
CLONALITY:	Monoclonal
CLONE:	1B4A5
HOST/ISOTYPE:	Mouse IgG1, κ
PURIFICATION:	Protein A purification
FORM:	Liquid
CONCENTRATION:	0.5 mg/ml
FORMULATION:	In PBS buffer, pH 7.4, containing 0.02% sodium azide
STORAGE CONDITIONS:	For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.
SENSITIVITY:	The limit of detection for antibody pairs is < 5 pg/ml.
SPECIFICITY:	Free PSA monoclonal antibodies (4E9C2, 1D3E6 and 1B4A5) recognize human free PSA protein.
DESCRIPTION:	<p>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.</p> <p>Free PSA Antibody 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</p>
APPLICATION:	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 μ g/ml, ELISA Detection: 0.05-0.2 μ g/ml

Detection	Capture		
	A1350 (4E9C2)	A1351 (1D3E6)	A1352 (1B4A5)
A1350 (4E9C2)		-	-
A1351 (1D3E6)	+		+
A1352 (1B4A5)	-	-	

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



Antibody pairs analysis of free PSA monoclonal antibodies by Sandwich ELISA

General conditions for sandwich ELISA:

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. washing cycles
5. Incubation with Streptavidin-HRP, followed by 3 washing cycles.
6. Bound peroxidase activity was determined using Colorimetric detection.

RELATED PRODUCTS:

- Prostate Specific Antigen (PSA) Activity Assay Kit (Fluorometric) (Cat. No. K962)
- Prostate Specific Antigen (Free, human) ELISA Kit (Cat. No. K7432)
- Prostate Specific Antigen (Total, human) ELISA Kit (Cat. No. K7431)

FOR RESEARCH USE ONLY! Not to be used on humans.