

Anti-Prostate Specific Antigen Antibody (9D734)

Product Details

Ig Type:	IgG1
Reactivity:	Human
Molecular Weight:	Theoretical: 23 kDa. Actual: 35 kDa.
Clone:	9D734
Purification:	Protein A purified

Applications

1. Paraformaldehyde-fixed, paraffin embedded (human prostate); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Prostate Specific Antigen) Monoclonal Antibody, Unconjugated (TMAB-11796) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructions and DAB staining.

2. Sample:

Lane 1: Prostate Specific Antigen (PSA) Protein at 500 ng

Primary: Mouse Anti-PSA Monoclonal Antibody at 1/1000 dilution (Cat. TMAB-11796)

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 34 kD

Observed band size: 32 kD

Verified Activity: 3. Measured by its binding ability in a indirect ELISA. Immobilized Human PSA (Native) at 2 µg/mL (100 µL/well) can bind Anti-Human PSA monoclonal antibody, the minimum detection concentration is 0.1 ng/mL

4. Sample:

Lane 1: Human Prostate Specific Antigen protein

Primary: Anti-Prostate Specific Antigen (TMAB-11796) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 23 kDa

Observed band size: 35 kDa

5. Paraformaldehyde-fixed, paraffin embedded (Human Prostate Tumor); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Incubation with (Prostate Specific Antigen) Monoclonal Antibody, Unconjugated (TMAB-11796) at 1:100 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructions and DAB staining.

Application: WB,IHC-P,IHC-Fr,IF,ELISA

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Recommended WB: 1:500-2000; IHC-P: 1:400-800; IHC-Fr: 1:400-800; IF: 1:100-500; ELISA: 1:5000-10000

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Prostate Specific Antigen (PSA) Antigen, Native

Gene ID: 354

Research Background

Kallikreins are a subgroup of serine proteases having diverse physiological functions. Growing evidence suggests that many kallikreins are implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers. This gene is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. Its protein product is a protease present in seminal plasma. 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. Alternate splicing of this gene generates several transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008].

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