# PSP94 (B-10): sc-377491



The Power to Question

#### **BACKGROUND**

Prostate secretory protein, also designated PSP94, is a 94 amino acid protein that is expressed abundantly in semen. PSP94 has local functions within the reproductive tract as well as many systemic functions. Low levels of PSP94 are associated with the advance of prostate cancer, a common malignancy that is often associated with skeletal metastases resulting in significant morbidity and mortality. PSP94 may be a useful tool for the management of a sub-population of low-stage and low-grade prostatic carcinoma and its associated complications.

## REFERENCES

- 1. Wright, G.L., et al. 1990. Generation and characterization of monoclonal antibodies to prostate secretory protein. Int. J. Cancer 46: 39-49.
- Huang, C.L., et al. 1992. Two-site monoclonal antibody-based immunoradiometric assay for measuring prostate secretory protein in serum. Clin. Chem. 38: 817-823.
- 3. Huang, C.L., et al. 1993. Comparison of prostate secretory protein with prostate specific antigen and prostatic acid phosphatase as a serum biomarker for diagnosis and monitoring patients with prostate carcinoma. Prostate 23: 201-212.
- Shukeir, N., et al. 2003. Prostate secretory protein PSP94 decreases tumor growth and hypercalcemia of malignancy in a syngenic *in vivo* model of prostate cancer. Cancer Res. 63: 2072-2078.
- Shukeir, N., et al. 2004. A synthetic 15-mer peptide (PCK3145) derived from prostate secretory protein can reduce tumor growth, experimental skeletal metastases, and malignancy-associated hypercalcemia. Cancer Res. 64: 5370-5377.

#### **CHROMOSOMAL LOCATION**

Genetic locus: MSMB (human) mapping to 10q11.23; Msmb (mouse) mapping to 14 B.

#### **SOURCE**

PSP94 (B-10) is a mouse monoclonal antibody raised against amino acids 34-98 of PSP94 of mouse origin.

#### **PRODUCT**

Each vial contains 200  $\mu g \, lg G_1$  kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

PSP94 (B-10) is available conjugated to agarose (sc-377491 AC), 500  $\mu$ g/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-377491 HRP), 200  $\mu$ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-377491 PE), fluorescein (sc-377491 FITC), Alexa Fluor\* 488 (sc-377491 AF488), Alexa Fluor\* 546 (sc-377491 AF546), Alexa Fluor\* 594 (sc-377491 AF594) or Alexa Fluor\* 647 (sc-377491 AF647), 200  $\mu$ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor\* 680 (sc-377491 AF680) or Alexa Fluor\* 790 (sc-377491 AF790), 200  $\mu$ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

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#### **APPLICATIONS**

PSP94 (B-10) is recommended for detection of PSP94 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for PSP94 siRNA (h): sc-76280, PSP94 siRNA (m): sc-76281, PSP94 shRNA Plasmid (h): sc-76280-SH, PSP94 shRNA Plasmid (m): sc-76281-SH, PSP94 shRNA (h) Lentiviral Particles: sc-76280-V and PSP94 shRNA (m) Lentiviral Particles: sc-76281-V.

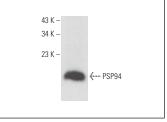
Molecular Weight of PSP94: 11 kDa.

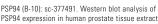
Positive Controls: mouse prostate extract: sc-364249 or human prostate extract: sc-363774.

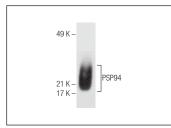
# **RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG $\kappa$  BP-HRP: sc-516102 or m-lgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker Molecular Weight Standards: sc-2035, UltraCruz Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-lgG $\kappa$  BP-FITC: sc-516140 or m-lgG $\kappa$  BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz Mounting Medium: sc-24941 or UltraCruz Hard-set Mounting Medium: sc-359850.

#### DATA







PSP94 (B-10): sc-377491. Western blot analysis of PSP94 expression in mouse prostate tissue extract

#### **STORAGE**

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## **RESEARCH USE**

For research use only, not for use in diagnostic procedures.

#### **PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.