**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**


**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 µg IgG, 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 µg/25 ml agarose in 1 ml, for IP; to HRP (sc-377491 HRPR), 200 µg/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 µg/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 µg/ml, for Near-Infrared (NIR) WB, IF and FCM. Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.

**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-IgG® HRP (Cruz Marker): sc-516102-CM (dilution range: 1:100-1:1000), 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-IgG® HRP (Cruz Marker): sc-516102 (dilution range: 1:30-1:3000).

**DATA**

**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.