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 IgG1 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/0.25 ml agarose in 1 ml, for IP; to HRP (sc-377491 HRP), 200 µg/ml, for WB, ICPIP 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.

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 1:1000-1:10000), 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-IgGκ BP-HRP: sc-516102 or m-IgGκ 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-IgGκ BP-FITC: sc-516140 or m-IgGκ 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

![Western blot analysis of PSP94 expression in human prostate tissue extract.](image1)

![Western blot analysis of PSP94 expression in mouse prostate tissue extract.](image2)

STOREAGE

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

PROTOCOLS

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

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