SANTA CRUZ BIOTECHNOLOGY, INC.

Prostasin (M-52): sc-98859

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Prostasin, a serine protease first identified in prostate tissue, activates epithelial sodium channels in a variety of tissues. Though typically a membrane-anchored protein, free Prostasin is also found in physiologic fluids and tissue culture media, indicating a mechanism for secretion from the cells as well. Aprotinin and other protease inhibitors suppress the channel-activating capacity of Prostasin, while Aldosterone increases Prostasin expression and stimulates sodium uptake. In addition, DNA methylation negatively correlates with Prostasin expression in cancer cells, while enforced reexpression decreases invasiveness as well as metastatic potential, implying that Prostasin activity reflects epithelial cell physiology.

CHROMOSOMAL LOCATION

Genetic locus: PRSS8 (human) mapping to 16p11.2; Prss8 (mouse) mapping to 7 F3.

SOURCE

Prostasin (M-52) is a rabbit polyclonal antibody raised against amino acids 171-222 mapping within an internal region of Prostasin of mouse origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

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 or our catalog for detailed protocols and support products.

APPLICATIONS

Prostasin (M-52) is recommended for detection of Prostasin of mouse, rat and, to a lesser extent, human origin by Western Blotting (starting dilution 1:200, 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).

Prostasin (M-52) is also recommended for detection of Prostasin in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for Prostasin siRNA (h): sc-63314, Prostasin siRNA (m): sc-63315, Prostasin shRNA Plasmid (h): sc-63314-SH, Prostasin shRNA Plasmid (m): sc-63315-SH, Prostasin shRNA (h) Lentiviral Particles: sc-63314-V and Prostasin shRNA (m) Lentiviral Particles: sc-63315-V.

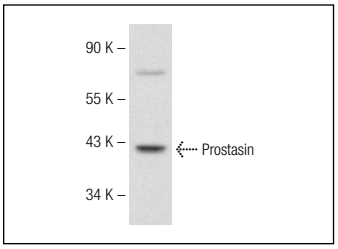
Molecular Weight of Prostasin: 40 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, LNCaP cell lysate: sc-2231 or LNCaP-FGC-10 cell lysate.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Prostasin (M-52): sc-98859. Western blot analysis of Prostasin expression in Hep G2 whole cell lysate.

RESEARCH USE

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

MONOS Satisfaction Guaranteed

Try **Prostasin (C-10): sc-514983** or **Prostasin (2): sc-136272**, our highly recommended monoclonal alternatives to Prostasin (M-52).