

SMR3A (T-13): sc-139214

BACKGROUND

Salivary glands are accessory digestive structures that also are sources of systemically active immunoregulatory and anti-inflammatory factors. The salivary glands participate in a neuroendocrine axis that is regulated by the autonomic nervous system and contributes to whole body homeostasis. Submaxillary gland androgen-regulated proteins are male-specific proteins that have a pro-hormone structure and are processed by maturation enzymes, leading to the release of small peptides within the blood and saliva. These peptides have analgesic and anti-inflammatory properties, and seem to be important in mediating inflammation, suppressing pain and erectile dysfunction. Submaxillary gland androgen-regulated protein 3A (SMR3A) and 3B (SMR3B), also known as Proline-rich protein 5 and Proline-rich protein 3 respectively, are secreted into the saliva by the submaxillary gland and may have a hormonal effect.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: *Smr3a* (mouse) mapping to 5 E1.

SOURCE

SMR3A (T-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SMR3A 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.

Blocking peptide available for competition studies, sc-139214 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SMR3A (T-13) is recommended for detection of SMR3A of mouse origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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); non cross-reactive with other SMR3 family members.

Suitable for use as control antibody for SMR3A siRNA (m): sc-153639, SMR3A shRNA Plasmid (m): sc-153639-SH and SMR3A shRNA (m) Lentiviral Particles: sc-153639-V.

Molecular Weight of SMR3A: 14 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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 or our catalog for detailed protocols and support products.