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 prohormone 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

CHROMOSOMAL LOCATION
Genetic locus: SMR3A/SMR3B (human) mapping to 4q13.3.

SOURCE
SMR3A/B (G-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SMR3B of human 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-139215 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS
SMR3A/B (G-12) is recommended for detection of SMR3A and SMR3B of human 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); may cross-react with COL27A1 and RBM16 of human origin.

Molecular Weight of SMR3A: 14 kDa.
Molecular Weight of SMR3B: 8 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-2494. 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.