# SANTA CRUZ BIOTECHNOLOGY, INC.

# SPRR2G (P-16): sc-324356



BACKGROUND

The small proline rich protein (SPRR) gene family encodes a conserved group of cornified envelope (CE) proteins that are part of the human epidermal differentiation complex (EDC). The formation of the cornified envelope during the late stages of epidermal differentiation is essential for epidermal barrier function and protects the body against environmental attack and water loss. Additionally, the expression of SPRR proteins is linked to keratinocyte terminal differentiation. The SPRR gene family, namely comprises three subclasses of genes, SPRR1 (which contains two members), SPRR2 (which contains eight members) and SPRR3 (which contains one member). SPRR1 is found predominantly in follicular epidermis and oral mucosa, SPRR2 is expressed coherently in follicular and interfollicular epidermis and SPRR3 is absent in epidermis and strongly expressed in internal squamous.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: SPRR2G (human) mapping to 1q21.3.

## SOURCE

SPRR2G (P-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SPRR2G of human origin.

## PRODUCT

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-324356 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **APPLICATIONS**

SPRR2G (P-16) is recommended for detection of SPRR2G 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); non cross-reactive with other SPRR2 family members.

Suitable for use as control antibody for SPRR2G siRNA (h): sc-78925, SPRR2G shRNA Plasmid (h): sc-78925-SH and SPRR2G shRNA (h) Lentiviral Particles: sc-78925-V.

Molecular Weight of SPRR2G: 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-2048. 2) Immunofluo-rescence: use donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

#### **STORAGE**

Store at 4° C, \*\*D0 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.