SANTA CRUZ BIOTECHNOLOGY, INC.

R-Spondin2 (K-14): sc-74886

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Roof plate-specific Spondins (R-Spondins) are secreted proteins that possess a Furin-like cysteine-rich domain and are involved in regulating β-catenin function. R-Spondin2, also known as RSPO2 or CRISTIN2, is a 243 amino acid secreted protein that contains one FU repeat and one TSP type-1 domain. Existing as multiple alternatively spliced isoforms, R-Spondin2 interacts with Wnt-1 and functions to activate the β-catenin signaling cascade, ultimately leading to TCF-dependent gene activation. Additionally, R-Spondin2 is thought to act as a ligand for LRP and frizzled receptors. The gene encoding R-Spondin2 maps to human chromosome 8, which encodes over 800 genes and is associated with a variety of diseases and malignancies. Schizophrenia, bipolar disorder, Trisomy 8, Pfeiffer syndrome, congenital hypothyroidism, Waardenburg syndrome and some leukemias and lymphomas are thought to occur as a result of defects in specific genes that maps to chromosome 8.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: RSPO2 (human) mapping to 8q23.1; Rspo2 (mouse) mapping to 15 B3.1.

SOURCE

R-Spondin2 (K-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of R-Spondin2 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-74886 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

R-Spondin2 (K-14) is recommended for detection of R-Spondin2 of mouse, rat and 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).

R-Spondin2 (K-14) is also recommended for detection of R-Spondin2 in additional species, including equine, canine and avian.

Suitable for use as control antibody for R-Spondin2 siRNA (h): sc-76307, R-Spondin2 siRNA (m): sc-76308, R-Spondin2 shRNA Plasmid (h): sc-76307-SH, R-Spondin2 shRNA Plasmid (m): sc-76308-SH, R-Spondin2 shRNA (h) Lentiviral Particles: sc-76307-V and R-Spondin2 shRNA (m) Lentiviral Particles: sc-76308-V.

Molecular Weight of R-Spondin2: 28 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.