SANTA CRUZ BIOTECHNOLOGY, INC.

RSPRY1 (P-12): sc-137741

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The Power to Question

BACKGROUND

The RING-type zinc finger motif is present in a number of viral and eukaryotic proteins and is made of a conserved cysteine-rich domain that is able to bind two zinc atoms. Proteins that contain this conserved domain are generally involved in the ubiquitination pathway of protein degradation. RSPRY1 (ring finger and SPRY domain containing 1) is a 576 amino acid secreted protein that contains one RING-type zinc finger and a B30.2/SPRY domain. Existing as two alternatively spliced isoforms, RSPRY1 is encoded by a gene that maps to human chromosome 16q13. Chromosome 16 encodes over 900 genes and comprises nearly 3% of the human genome. The GAN gene is located on chromosome 16 and, with mutation, may lead to giant axonal neuropathy, a nervous system disorder characterized by increasing malfunction with growth. The rare disorder Rubinstein-Taybi syndrome is also associated with chromosome 16, as is Crohn's disease, which is a gastrointestinal inflammatory condition.

REFERENCES

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4. Lorick, K.L., et al. 1999. RING fingers mediate ubiquitin-conjugating enzyme (E2)-dependent ubiquitination. Proc. Natl. Acad. Sci. USA 96: 11364-11369.
5. Bomont, P., et al. 2000. The gene encoding gigaxonin, a new member of the cytoskeletal BTB/kelch repeat family, is mutated in giant axonal neuropathy. Nat. Genet. 26: 370-374.
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CHROMOSOMAL LOCATION

Genetic locus: RSPRY1 (human) mapping to 16q13; Rspry1 (mouse) mapping to 8 C5.

SOURCE

RSPRY1 (P-12) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of RSPRY1 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-137741 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

RSPRY1 (P-12) is recommended for detection of RSPRY1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

RSPRY1 (P-12) is also recommended for detection of RSPRY1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for RSPRY1 siRNA (h): sc-93212, RSPRY1 siRNA (m): sc-153159, RSPRY1 shRNA Plasmid (h): sc-93212-SH, RSPRY1 shRNA Plasmid (m): sc-153159-SH, RSPRY1 shRNA (h) Lentiviral Particles: sc-93212-V and RSPRY1 shRNA (m) Lentiviral Particles: sc-153159-V.

Molecular Weight of RSPRY1 isoforms: 64/13 kDa.

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) 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.

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.