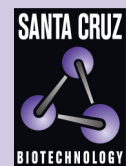


CYYR1 (D-15): sc-83236



The Power to Question

BACKGROUND

CYYR1 (cysteine/tyrosine-rich 1), also known as C21orf95, is a 154 amino acid single-pass type I membrane protein that is widely expressed as two alternatively spliced isoforms and may play a role in the development of neuroendocrine tumors. The gene encoding CYYR1 maps to human chromosome 21. The smallest of the human chromosomes, chromosome 21 comprises about 1.5% of the human genome and contains nearly 300 genes and 47 million base pairs. Down syndrome, also known as trisomy 21, is the disease most commonly associated with chromosome 21. Alzheimer's disease, Jervell and Lange-Nielsen syndromes and amyotrophic lateral sclerosis are also associated with chromosome 21. Translocations are found to occur between chromosome 21 and 8, and chromosome 21 and 12, in certain leukemias.

REFERENCES

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7. Ait Yahya-Graison, E., et al. 2007. Classification of human chromosome 21 gene-expression variations in Down syndrome: impact on disease phenotypes. *Am. J. Hum. Genet.* 81: 475-491.

CHROMOSOMAL LOCATION

Genetic locus: CYYR1 (human) mapping to 21q21.3; Cyyr1 (mouse) mapping to 16 C3.3.

SOURCE

CYYR1 (D-15) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of CYYR1 of human origin.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

PRODUCT

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

Blocking peptide available for competition studies, sc-83236 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CYYR1 (D-15) is recommended for detection of CYYR1 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).

CYYR1 (D-15) is also recommended for detection of CYYR1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for CYYR1 siRNA (h): sc-91523, CYYR1 siRNA (m): sc-142766, CYYR1 shRNA Plasmid (h): sc-91523-SH, CYYR1 shRNA Plasmid (m): sc-142766-SH, CYYR1 shRNA (h) Lentiviral Particles: sc-91523-V and CYYR1 shRNA (m) Lentiviral Particles: sc-142766-V.

Molecular Weight of CYYR1: 17 kDa.

Positive Controls: Mouse brain extract: sc-2253.

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.

RESEARCH USE

For research use only, not for use in diagnostic procedures.