

C21orf59 (N-19): sc-83558

BACKGROUND

The smallest of the human chromosomes, 21 makes up about 1.5% of the human genome. Chromosome 21 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 syndrome 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. C21orf59, also known as C21orf48, is a 290 amino acid protein and its gene product has been provisionally designated C21orf59 pending further characterization.

REFERENCES

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3. Müller, S., et al. 2000. Molecular cytogenetic dissection of human chromosomes 3 and 21 evolution. *Proc. Natl. Acad. Sci. USA* 97: 206-211.
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CHROMOSOMAL LOCATION

Genetic locus: C21orf59 (human) mapping to 21q22.11; 1110004E09Rik (mouse) mapping to 16 C3.3.

SOURCE

C21orf59 (N-19) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of C21orf59 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.

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-83558 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

C21orf59 (N-19) is recommended for detection of C21orf59 of human origin, 1110004E09Rik of mouse origin and the corresponding rat homolog 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).

C21orf59 (N-19) is also recommended for detection of C21orf59 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for C21orf59 siRNA (h): sc-91375, 1110004E09Rik siRNA (m): sc-108141, C21orf59 shRNA Plasmid (h): sc-91375-SH, 1110004E09Rik shRNA Plasmid (m): sc-108141-SH, C21orf59 shRNA (h) Lentiviral Particles: sc-91375-V and 1110004E09Rik shRNA (m) Lentiviral Particles: sc-108141-V.

Molecular Weight of C21orf59: 33 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, K-562 whole cell lysate: sc-2203 or PC-3 cell lysate: sc-2220.

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.

PROTOCOLS

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