

C4orf19 (N-20): sc-245747

BACKGROUND

C4orf19 (chromosome 4 open reading frame 12) is a 314 amino acid protein encoded by a gene that maps to human chromosome 4. The mouse homolog, 0610040J01Rik, is a 313 amino acid protein encoded by a gene mapping to mouse chromosome 5. Human chromosome 4 represents approximately 6% of the human genome and contains nearly 900 genes. Notably, the Huntington gene, which is found to encode an expanded glutamine tract in cases of Huntington's disease, is on chromosome 4. FGFR-3 is also encoded by a gene that is located on chromosome 4, and has been associated with thanatophoric dwarfism, achondroplasia, Muenke syndrome and bladder cancer. Chromosome 4 is also tied to Ellis-van Creveld syndrome, methylmalonic acidemia and polycystic kidney disease.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: C4orf19 (human) mapping to 4p14; 0610040J01Rik (mouse) mapping to 5 C3.1.

SOURCE

C4orf19 (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of C4orf19 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 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-245747 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

C4orf19 (N-20) is recommended for detection of 0610040J01Rik of mouse origin, C4orf19 of human 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).

C4orf19 (N-20) is also recommended for detection of C4orf19 in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for C4orf19 siRNA (h): sc-89176, 0610040J01Rik siRNA (m): sc-108124, C4orf19 shRNA Plasmid (h): sc-89176-SH, 0610040J01Rik shRNA Plasmid (m): sc-108124-SH, C4orf19 shRNA (h) Lentiviral Particles: sc-89176-V and 0610040J01Rik shRNA (m) Lentiviral Particles: sc-108124-V.

Molecular Weight of C4orf19: 34 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.

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.