

C4orf44 (P-19): sc-245782

BACKGROUND

Representing approximately 6% of the human genome, chromosome 4 contains nearly 900 genes. Notably, the Huntingtin 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 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. Chromosome 4 reportedly contains the largest gene deserts (regions of the genome with no protein encoding genes) and has one of the two lowest recombination frequencies of the human chromosomes. The C4orf44 gene product has been provisionally designated C4orf44 pending further characterization.

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CHROMOSOMAL LOCATION

Genetic locus: MSANTD1 (human) mapping to 4p16.3; Msantd1 (mouse) mapping to 5 B2.

SOURCE

C4orf44 (P-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of C4orf44 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-245782 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

C4orf44 (P-19) is recommended for detection of C4orf44 of human origin, A930005I04Rik 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).

C4orf44 (P-19) is also recommended for detection of C4orf44 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for C4orf44 siRNA (h): sc-89001, A930005I04Rik siRNA (m): sc-140692, C4orf44 shRNA Plasmid (h): sc-89001-SH, A930005I04Rik shRNA Plasmid (m): sc-140692-SH, C4orf44 shRNA (h) Lentiviral Particles: sc-89001-V and A930005I04Rik shRNA (m) Lentiviral Particles: sc-140692-V.

Molecular Weight of C4orf44: 32 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.