C16orf74 (D-15): sc-163828



The Power to Question

BACKGROUND

Chromosome 16 encodes over 900 genes in approximately 90 million base pairs, makes up nearly 3% of human cellular DNA and is associated with a variety of genetic disorders. 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, though through the CREBBP gene which encodes a critical CREB binding protein. Signs of Rubinstein-Taybi include mental retardation and predisposition to tumor growth and white blood cell neoplasias. Crohn's disease is a gastrointestinal inflammatory condition associated with chromosome 16 through the NOD2 gene. An association with systemic lupus erythematosis and a number of other autoimmune disorders with the pericentromeric region of chromosome 16 has led to the identification of SLC5A11 as a potential autoimmune modifier. The C16orf74 gene product has been provisionally designated C16orf74 pending further characterization.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: C16orf74 (human) mapping to 16q24.1; 1190005l06Rik (mouse) mapping to 8 E1.

SOURCE

C16orf74 (D-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of C16orf74 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-163828 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

C16orf74 (D-15) is recommended for detection of C16orf74 of human origin and 1190005106Rik of mouse origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], 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); non cross-reactive with other C16orf family members.

C16orf74 (D-15) is also recommended for detection of C16orf74 in additional species, including canine.

Suitable for use as control antibody for C16orf74 siRNA (h): sc-93064, 1190005106Rik siRNA (m): sc-108199, C16orf74 shRNA Plasmid (h): sc-93064-SH, 1190005106Rik shRNA Plasmid (m): sc-108199-SH, C16orf74 shRNA (h) Lentiviral Particles: sc-93064-V and 1190005106Rik shRNA (m) Lentiviral Particles: sc-108199-V.

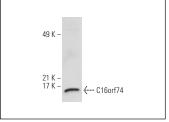
Molecular Weight of C16orf74: 7 kDa.

Positive Controls: L6 whole cell lysate: sc-364196.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



C16orf74 (D-15): sc-163828. Western blot analysis of C16orf74 expression in L6 whole cell lysate.

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.