SANTA CRUZ BIOTECHNOLOGY, INC.

C14orf118 (N-16): sc-242032



The Power to Question

BACKGROUND

Chromosome 14 contains about 700 genes and 106 million base pairs and makes up about 3.5% of human cellular DNA. Chromosome 14 encodes the presinilin 1 (PSEN1) gene, which is one of the three key genes associated with the development of Alzheimer's disease. The SERPINA1 gene is located on chromosome 14 and when defective leads to the genetic disorder α 1-antitryps in deficiency. This disorder is characterized by severe lung complications and liver dysfunction. Notably, the immunoglobulin heavy chain locus is found on chromosome 14 and has been identified as a fusion with the chromosome 19 encoded protein BCL3 in the (14;19) translocations found in a variety of B cell malignancies. The C14orf118 gene product has been provisionally designated C14orf118 pending further characterization.

REFERENCES

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- 2. Godbolt, A.K., et al. 2004. A presenilin 1 R278I mutation presenting with language impairment. Neurology 63: 1702-1704.
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- 5. Albani, D., et al. 2007. Presenilin-1 mutation E318G and familial Alzheimer's disease in the Italian population. Neurobiol. Aging 28: 1682-1688.
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CHROMOSOMAL LOCATION

Genetic locus: C14orf118 (human) mapping to 14q24.3; 1700020003Rik (mouse) mapping to 12 D2.

SOURCE

C14orf118 (N-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of C14orf118 of human origin.

STORAGE

Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

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-242032 P, (100 μg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

C14orf118 (N-16) is recommended for detection of C14orf118 of human origin, 1700020003Rik 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).

C14orf118 (N-16) is also recommended for detection of C14orf118 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for C14orf118 siRNA (h): sc-92217, 1700020003Rik siRNA (m): sc-108366, C14orf118 shRNA Plasmid (h): sc-92217-SH, 1700020003Rik shRNA Plasmid (m): sc-108366-SH, C14orf118 shRNA (h) Lentiviral Particles: sc-92217-V and 1700020003Rik shRNA (m) Lentiviral Particles: sc-108366-V.

Molecular Weight of C14orf118: 52 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) Immunofluo-rescence: use 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.