

CCDC198 (B-1): sc-398907

BACKGROUND

Chromosome 14 contains about 700 genes and 106 million base pairs, comprising about 3.5% of human cellular DNA. Chromosome 14 encodes the presenilin 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-antitrypsin 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 Bcl-3 in the (14;19) translocations found in a variety of B cell malignancies.

REFERENCES

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3. Stolk, J., et al. 2006. α 1-antitrypsin deficiency: current perspective on research, diagnosis, and management. *Int. J. Chron. Obstruct. Pulmon. Dis.* 1: 151-160.
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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: CCDC198 (human) mapping to 14q22.3; ccdc198 (mouse) mapping to 14 C1.

SOURCE

CCDC198 (B-1) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 38-60 within an internal region of CCDC198 of mouse origin.

PRODUCT

Each vial contains 200 μ g IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-398907 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

APPLICATIONS

CCDC198 (B-1) is recommended for detection of CCDC198 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

Suitable for use as control antibody for CCDC198 siRNA (h): sc-92369, CCDC198 siRNA (m): sc-108309, CCDC198 shRNA Plasmid (h): sc-92369-SH, CCDC198 shRNA Plasmid (m): sc-108309-SH, CCDC198 shRNA (h) Lentiviral Particles: sc-92369-V and CCDC198 shRNA (m) Lentiviral Particles: sc-108309-V.

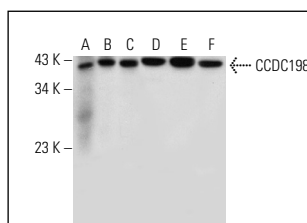
Molecular Weight of CCDC198: 34 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210, mouse heart extract: sc-2254 or mouse testis extract: sc-2405.

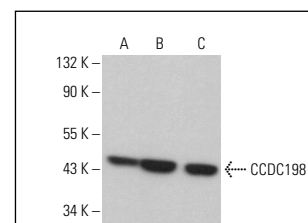
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgG κ BP-FITC: sc-516140 or m-IgG κ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



CCDC198 (B-1): sc-398907. Western blot analysis of CCDC198 expression in mouse heart (A), mouse testis (B) and mouse brain (C) tissue extracts and HL-60 (D), SW-13 (E) and NIH/3T3 (F) whole cell lysates.



CCDC198 (B-1): sc-398907. Western blot analysis of CCDC198 expression in HL-60 (A), Jurkat (B) and KNRK (C) whole cell lysates.

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.