

G630016D24Rik (S-16): sc-245278

BACKGROUND

G630016D24Rik, also known as transmembrane protein C14orf176 homolog, is a 204 amino acid mouse protein encoded by a gene that maps to mouse chromosome 14 C2. The human homolog of this protein is known as C14orf176. C14orf176 (chromosome 14 open reading frame 176) is a 217 amino acid multi-pass membrane protein encoded by a gene that maps to human chromosome 14q11.2. Chromosome 14 contains approximately 700 genes and 106 million base pairs and makes up 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 translocations found in a variety of B cell malignancies.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: G630016D24Rik (mouse) mapping to 14 C2.

SOURCE

G630016D24Rik (S-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of G630016D24Rik of mouse origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-245278 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

G630016D24Rik (S-16) is recommended for detection of G630016D24Rik 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).

Suitable for use as control antibody for G630016D24Rik siRNA (m): sc-145291, G630016D24Rik shRNA Plasmid (m): sc-145291-SH and G630016D24Rik shRNA (m) Lentiviral Particles: sc-145291-V.

Molecular Weight of G630016D24Rik: 22 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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.