

ATRNL1 (S-15): sc-139121

BACKGROUND

ATRNL1 (attractin-like protein 1) is a 1,379 amino acid single-pass type I membrane protein that may play a role in melanocortin signaling pathways that regulate energy homeostasis. The ATRNL1 protein contains a C-type lectin domain, a CUB domain, two EGF-like domains, six Kelch repeats, two laminin EGF-like domains and five PSI domains. ATRNL1 interacts with MC4-R in several regions known to be important in the regulation of energy homeostasis by melanocortins, such as the paraventricular nucleus of hypothalamus and the dorsal motor nucleus of the vagus. The ATRNL1 gene is conserved in canine, bovine, mouse, rat, chicken, zebrafish and *C. elegans*, exists as two alternatively spliced isoforms and maps to human chromosome 10q25.3. Strong evidence of linkage to late-onset Alzheimer disease (LOAD) is linked to chromosome 10, which implicates a wide region and at least one disease-susceptibility locus.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ATRNL1 (human) mapping to 10q25.3; Atrnl1 (mouse) mapping to 19 D2.

SOURCE

ATRNL1 (S-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of ATRNL1 of human origin.

STORAGE

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

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-139121 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ATRNL1 (S-15) is recommended for detection of ATRNL1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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).

ATRNL1 (S-15) is also recommended for detection of ATRNL1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for ATRNL1 siRNA (h): sc-90786, ATRNL1 siRNA (m): sc-141375, ATRNL1 shRNA Plasmid (h): sc-90786-SH, ATRNL1 shRNA Plasmid (m): sc-141375-SH, ATRNL1 shRNA (h) Lentiviral Particles: sc-90786-V and ATRNL1 shRNA (m) Lentiviral Particles: sc-141375-V.

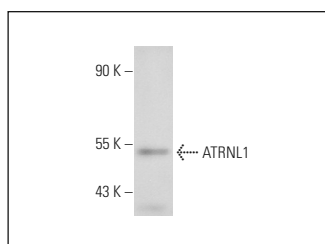
Molecular Weight of ATRNL1 isoforms 1/2: 153/52 kDa.

Positive Controls: mouse pancreas extract: sc-364244.

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



ATRNL1 (S-15): sc-139121. Western blot analysis of ATRNL1 expression in mouse pancreas tissue extract.

RESEARCH USE

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