

LEPROTL1 (L-13): sc-87194

BACKGROUND

Mutation of Ob (Obesity factor), also known as leptin precursor, results in profound obesity and type II diabetes as part of a syndrome that resembles morbid obesity in humans. The Ob gene product may function as a component of a signaling pathway in adipose tissue that functions to regulate body fat depot size. The leptin receptor, designated Ob-R, has been shown to be a single membrane-spanning receptor that most resembles the gp130 signal transducing component of the IL-6, G-CSF and LIF receptor. LEPROTL1 (Leptin receptor overlapping transcript-like 1) is a 131 amino acid multi-pass membrane protein that is highly homologous to the leptin receptor gene-related protein, Ob-R. LEPROTL1 is widely expressed and contains a JAK binding site. The LEPROTL1 gene is located on chromosome 8, which is made up of nearly 146 million bases and encodes about 800 genes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: LEPROTL1 (human) mapping to 8p12; Leprotl1 (mouse) mapping to 8 A4.

SOURCE

LEPROTL1 (L-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of LEPROTL1 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-87194 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

LEPROTL1 (L-13) is recommended for detection of LEPROTL1 of mouse, rat and human origin 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).

LEPROTL1 (L-13) is also recommended for detection of LEPROTL1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for LEPROTL1 siRNA (h): sc-77794, LEPROTL1 siRNA (m): sc-146710, LEPROTL1 shRNA Plasmid (h): sc-77794-SH, LEPROTL1 shRNA Plasmid (m): sc-146710-SH, LEPROTL1 shRNA (h) Lentiviral Particles: sc-77794-V and LEPROTL1 shRNA (m) Lentiviral Particles: sc-146710-V.

Molecular Weight of LEPROTL1: 14 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.

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.