

LPLUNC4 (T-18): sc-85759

BACKGROUND

LPLUNC4 (long palate, lung and nasal epithelium carcinoma-associated protein 4), also known as C20orf186 or RY2G5, is a 614 amino acid secreted protein that belongs to the BPI/LBP/PLUNC superfamily. Expressed in nasal tissue, LPLUNC4 has the capacity to recognize and bind specific classes of odorants serving as a primary defense mechanism in the mucosa. LPLUNC4 is encoded by a gene which maps to a BPI/LBP/PLUNC gene cluster on human chromosome 20. Comprising approximately 2% of the human genome, chromosome 20 contains nearly 63 million bases that encode over 600 genes, some of which are associated with Creutzfeldt-Jakob disease, amyotrophic lateral sclerosis, spinal muscular atrophy, ring chromosome 20 epilepsy syndrome and Alagille syndrome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: C20orf186 (human) mapping to 20q11.21; Gm1006 (mouse) mapping to 2 H1.

SOURCE

LPLUNC4 (T-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of LPLUNC4 of human origin.

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-85759 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

LPLUNC4 (T-18) is recommended for detection of LPLUNC4 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).

Suitable for use as control antibody for LPLUNC4 siRNA (h): sc-75696, LPLUNC4 siRNA (m): sc-149025, LPLUNC4 shRNA Plasmid (h): sc-75696-SH, LPLUNC4 shRNA Plasmid (m): sc-149025-SH, LPLUNC4 shRNA (h) Lentiviral Particles: sc-75696-V and LPLUNC4 shRNA (m) Lentiviral Particles: sc-149025-V.

Molecular Weight of LPLUNC4: 65 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.