

LIPH (T-15): sc-99503

BACKGROUND

LIPH (lipase, member H) is also known as AH, LPD (lipase-related protein), phospholipase A1 member B or membrane-associated phosphatidic acid-selective phospholipase A1- α , and is a 451 amino acid protein. LIPH is a member of the triglyceride lipase family and is highly expressed in colon, prostate, kidney, pancreas, ovary, testis, intestine, lung and pancreas. LIPH is also expressed in hair, primarily localized to stem cell-rich bulge regions of hair follicles. The ability of LIPH to regulate hair growth may be because LIPH produces LPA (lysophosphatidic acid) by hydrolyzing PA (phosphatidic acid). LPA then activates P2Y5, another hair follicle protein, which is thought to be important for hair growth regulation. In cells, LIPH associates with the peripheral membrane and is secreted just outside of it. Genetic defects in the gene encoding LIPH are associated with hypotrichosis and alopecia, both of which affect hair growth, implying that LIPH may be an important enzyme in hair growth regulation.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: LIPH (human) mapping to 3q27.2; Liph (mouse) mapping to 16 B1.

SOURCE

LIPH (T-15) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of LIPH of human 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-99503 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

LIPH (T-15) is recommended for detection of LIPH of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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).

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

Suitable for use as control antibody for LIPH siRNA (h): sc-77880, LIPH siRNA (m): sc-146739, LIPH shRNA Plasmid (h): sc-77880-SH, LIPH shRNA Plasmid (m): sc-146739-SH, LIPH shRNA (h) Lentiviral Particles: sc-77880-V and LIPH shRNA (m) Lentiviral Particles: sc-146739-V.

Molecular Weight of LIPH: 55 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.