SANTA CRUZ BIOTECHNOLOGY, INC.

ELOVL7 (N-17): sc-55642

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Elongation of very long chain fatty acid-like (ELOVL) proteins are members of the ELO family of proteins, which play an important role in tissue-specific biosynthesis of very long chain fatty acids and sphingolipids. Fatty acids are important in many biological processes including fetal growth and development, brain development, inflammatory response, and retinal function. The ELOVL proteins function as elongases and catalyze fatty acid elongation reduction and localize to the endoplasmic reticulum (ER). Elongation of very long chain fatty acids protein 7 (ELOVL7) is involved in lipogenesis and its expression is regulated by PPARα. ELOVL7 is a 281 amino acid protein and the gene encoding ELOVL7 maps to chromosome 5q12.1.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ELOVL7 (human) mapping to 5q12.1.

SOURCE

ELOVL7 (N-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of ELOVL7 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-55642 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ELOVL7 (N-17) is recommended for detection of ELOVL7 of 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).

ELOVL7 (N-17) is also recommended for detection of ELOVL7 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for ELOVL7 siRNA (h): sc-62273, ELOVL7 shRNA Plasmid (h): sc-62273-SH and ELOVL7 shRNA (h) Lentiviral Particles: sc-62273-V.

Molecular Weight (predicted) of ELOVL7: 33 kDa.

Molecular Weight (observed) of ELOVL7: 38 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

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.