SANTA CRUZ BIOTECHNOLOGY, INC.

ELOVL5 (H-89): sc-135062

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Elongation of very long chain fatty acid-like (ELOVL) proteins 1-6 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. The ELOVL proteins act as catalysts in fatty acid elongation reduction and localize to the endoplasmic reticulum (ER). Elongation of very long chain fatty acids protein 5 (ELOVL5), also known as HELO1 (human elongase 1), is predominantly expressed in adrenal gland and testis, but is also found in lung, brain and prostate tissue. ELOVL5 participates in the elongation of monounsaturated and polyunsaturated fatty acids of 18 to 20 carbons and thereby regulates the activity of PPARα. In addition, ELOVL5 localizes to the sebaceous glands of the pheromone-producing region of skin and may be associated with pheromone production and regulation.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ELOVL5 (human) mapping to 6p12.1; Elovl5 (mouse) mapping to 9 E1.

SOURCE

ELOVL5 (H-89) is a rabbit polyclonal antibody raised against amino acids 211-299 mapping at the C-terminus of ELOVL5 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.

APPLICATIONS

ELOVL5 (H-89) is recommended for detection of ELOVL5 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).

ELOVL5 (H-89) is also recommended for detection of ELOVL5 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for ELOVL5 siRNA (h): sc-62269, ELOVL5 siRNA (m): sc-62270, ELOVL5 shRNA Plasmid (h): sc-62269-SH, ELOVL5 shRNA Plasmid (m): sc-62270-SH, ELOVL5 shRNA (h) Lentiviral Particles: sc-62269-V and ELOVL5 shRNA (m) Lentiviral Particles: sc-62270-V.

Molecular Weight of ELOVL5: 35 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (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.

MONOS Satisfaction Guaranteed

Try **ELOVL5 (E-10): sc-398653** or **ELOVL5 (B-3): sc-374138**, our highly recommended monoclonal alternatives to ELOVL5 (H-89).