ACOXL (F-14): sc-107381



The Power to Question

BACKGROUND

Acyl-coenzyme A oxidase (ACOX) proteins use FAD as a cofactor to catalyze the desaturation of very long chain acyl-CoA proteins to 2-trans-enoyl-CoA proteins, a reaction that utilizes oxygen and produces hydrogen peroxide. ACOXL (acyl-coenzyme A oxidase-like) is a 547 amino acid protein that belongs to the acyl-CoA oxidase family and is expressed as three isoforms produced by alternative splicing events. The gene that encodes ACOXL maps to human chromosome 2, the second largest human chromosome consisting of 237 million bases encoding over 1,400 genes. A number of genetic diseases are linked to genes on chromosome 2. Harlequin icthyosis, a rare and morbid skin deformity, is associated with mutations in the ABCA12 gene. The lipid metabolic disorder sitosterolemia is associated with ABCG5 and ABCG8. An extremely rare recessive genetic disorder, Alström syndrome, is due to mutations in the ALMS1 gene.

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CHROMOSOMAL LOCATION

Genetic locus: Acoxl (mouse) mapping to 2 F1.

SOURCE

ACOXL (F-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ACOXL of mouse 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 lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-107381 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ACOXL (F-14) is recommended for detection of ACOXL of mouse and rat 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 ACOXL siRNA (m): sc-140820, ACOXL shRNA Plasmid (m): sc-140820-SH and ACOXL shRNA (m) Lentiviral Particles: sc-140820-V.

Molecular Weight of ACOXL: 62 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat lgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat lgG-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 lgG-FITC: sc-2024 (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.

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