

ACOT9 (K-12): sc-131862

BACKGROUND

Acyl-CoA thioesterases (ACOTs) are a group of enzymes that catalyze the hydrolysis of acyl-CoA to form coenzyme A (CoA) and a free fatty acid. Through their catalytic activity, ACOTs are able to regulate the level of fatty acids and acyl-CoAs within the cell. ACOT9 (acyl-CoA thioesterase 9), also known as ACATE2, MT-ACT48 (mitochondrial acyl-CoA thioesterase of 48 kDa) or CGI-16, is a 406 amino acid member of the acyl-CoA hydrolase protein family. ACOT9 contains a C-terminal 80 amino acid domain that is conserved from mouse to human, suggesting that the C-terminus may confer the catalytic activity of ACOT9. The gene encoding ACOT9 is located on chromosome X and the expressed ACOT9 protein is localized to the mitochondrion.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ACOT9 (human) mapping to Xp22.11; Acot9 (mouse) mapping to X F3, Acot10 (mouse) mapping to 15 A2.

SOURCE

ACOT9 (K-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ACOT9 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-131862 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ACOT9 (K-12) is recommended for detection of ACOT9 of mouse, rat and human origin and ACOT10 of mouse 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).

ACOT9 (K-12) is also recommended for detection of ACOT9 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for ACOT9 siRNA (h): sc-91052, ACOT9 shRNA Plasmid (h): sc-91052-SH and ACOT9 shRNA (h) Lentiviral Particles: sc-91052-V.

Molecular Weight of ACOT9: 48 kDa.

Positive Controls: MCF7 whole cell lysate: sc-2206.

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.


 MONOS
 Satisfation
 Guaranteed

Try **ACOT9 (G-6): sc-514330** or **ACOT9 (O59): sc-100476**, our highly recommended monoclonal alternatives to ACOT9 (K-12).