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ACAA2 (h): 293T Lysate: sc-172444

BACKGROUND

Mammalian tissues contain five types of thiolases, all of which participate in metabolism of various compounds throughout the body. ACAA2 (acetyl-Coenzyme A acyltransferase 2), also known as DSAEC, is a 397 amino acid member of the thiolase family of enzymes and is involved in lipid metabolism. Localized to the mitochondrion, ACAA2 catalyzes the last step, namely the conversion of acetyl-CoA to 3-oxoacyl-CoA, in the fatty acid oxidation pathway. ACAA2 is highly expressed in liver, fibroblasts and intercostal muscle and contains an N-terminal targeting signal that, unlike other mitochondrial proteins, is non-cleavable. Human ACAA2 shares 86.6% amino acid identity with its rat counterpart, suggesting a conserved function for ACAA2 among different species.

REFERENCES

1. Abe, H., Ohtake, A., Yamamoto, S., Satoh, Y., Takayanagi, M., Amaya, Y., Takiguchi, M., Sakuraba, H., Suzuki, Y. and Mori, M. 1993. Cloning and sequence analysis of a full length cDNA encoding human mitochondrial 3-oxoacyl-CoA thiolase. *Biochim. Biophys. Acta* 1216: 304-306.
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CHROMOSOMAL LOCATION

Genetic locus: ACAA2 (human) mapping to 18q21.1.

PRODUCT

ACAA2 (h): 293T Lysate represents a lysate of human ACAA2 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

ACAA2 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive ACAA2 antibodies. Recommended use: 10-20 µl per lane.

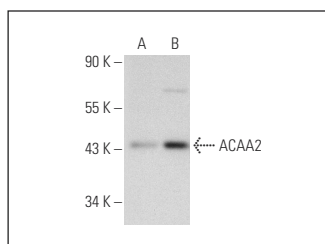
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

ACAA2 (192): sc-100847 is recommended as a positive control antibody for Western Blot analysis of enhanced human ACAA2 expression in ACAA2 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



ACAA2 (192): sc-100847. Western blot analysis of ACAA2 expression in non-transfected: sc-117752 (A) and human ACAA2 transfected: sc-172444 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. 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 for detailed protocols and support products.