

ACOT11 (J4B2): sc-135626

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. ACOT11 (acyl-CoA thioesterase 11), also known as BFIT, KIAA0707 or THEA, is a 607 amino acid protein that localizes to the cytoplasm and contains one START domain and two acyl coenzyme A hydrolase domains. ACOT11 is expressed as two alternatively spliced isoforms, the first of which is present in liver, testis, spleen, brain, lung and stomach, and the second of which is present in kidney and uterus. ACOT11 functions as an acyl-CoA thioesterase that has catalytic activity towards medium (C12) and long-chain (C18) fatty acyl-CoA substrates.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ACOT11 (human) mapping to 1p32.3.

SOURCE

ACOT11 (J4B2) is a mouse monoclonal antibody raised against amino acids 19-250 corresponding to recombinant ACOT11 of human 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 100 µg IgG_{2b} in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

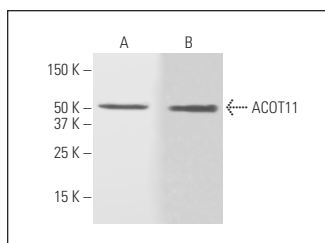
ACOT11 (J4B2) is recommended for detection of ACOT11 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for ACOT11 siRNA (h): sc-88130, ACOT11 shRNA Plasmid (h): sc-88130-SH and ACOT11 shRNA (h) Lentiviral Particles: sc-88130-V.

Molecular Weight of ACOT11: 68 kDa.

Positive Controls: LNCaP cell lysate: sc-2231 or Hep 3B whole cell lysate.

DATA



ACOT11 (J4B2): sc-135626. Western blot analysis of ACOT11 expression in LNCaP (A) and Hep 3B (B) whole cell lysates.

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.