

ACSBG1 (M-15): sc-130090

BACKGROUND

ACSBG1 (acyl-CoA synthetase bubblegum family member 1), also known as Lipodisin, BG1, BGM, LPD or GR-LACS, is a 724 amino acid protein that localizes to both the cytoplasm and the endoplasmic reticulum and belongs to the ATP-dependent AMP-binding enzyme family. Expressed primarily in brain and at lower levels in adrenal gland and testis, ACSBG1 functions to mediate the activation of long-chain and very long-chain fatty acids, thereby playing an important role in the synthesis and degradation of cellular lipids. Defects in the gene encoding ACSBG1 may be associated with X-linked adrenoleukodystrophy (X-ALD), a neurodegenerative disorder that affects the adrenal glands and the white matter of the brain and is characterized by urinary disturbances, sensory loss and cognitive defects.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ACSBG1 (human) mapping to 15q25.1; *Acsbg1* (mouse) mapping to 9 A5.3.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

SOURCE

ACSBG1 (M-15) is a purified rabbit polyclonal antibody raised against ACSBG1 of mouse origin.

PRODUCT

Each vial contains 100 μ g IgG in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

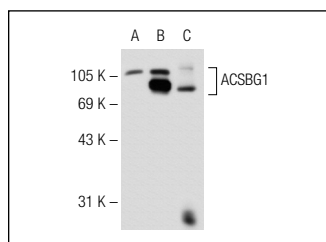
ACSBG1 (M-15) is recommended for detection of ACSBG1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for ACSBG1 siRNA (h): sc-89919, ACSBG1 siRNA (m): sc-140826, ACSBG1 shRNA Plasmid (h): sc-89919-SH, ACSBG1 shRNA Plasmid (m): sc-140826-SH, ACSBG1 shRNA (h) Lentiviral Particles: sc-89919-V and ACSBG1 shRNA (m) Lentiviral Particles: sc-140826-V.

Molecular Weight of ACSBG1: 80 kDa.

Positive Controls: ACSBG1 (h): 293T Lysate: sc-171703 or mouse brain extract: sc-2253.

DATA



ACSBG1 (M-15): sc-130090. Western blot analysis of ACSBG1 expression in non-transfected: sc-117752 (A) and human ACSBG1 transfected: sc-171703 (B) 293T whole cell lysates and mouse brain tissue extract (C).

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.