

ACSBG1 (S-15): sc-162475

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.

SOURCE

ACSBG1 (S-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ACSBG1 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-162475 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ACSBG1 (S-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), 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); non cross-reactive with ACSBG2.

ACSBG1 (S-15) is also recommended for detection of ACSBG1 in additional species, including equine, canine, bovine and porcine.

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: mouse brain extract: sc-2253.

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.