

# ACCSL (S-20): sc-244861

## BACKGROUND

ACCSL (1-aminocyclopropane-1-carboxylate synthase homolog (*Arabidopsis*)/(non-functional)-like), also known as ACC synthase-like protein 2, is a 568 amino acid protein that belongs to the class-I pyridoxal-phosphate-dependent aminotransferase family. ACCSL participates in 1-aminocyclopropane-1-carboxylate synthase activity, catalytic activity, pyridoxal phosphate binding and transferase activity for nitrogenous groups. ACCSL is similar to plant 1-aminocyclopropane-1-carboxylate synthases, however it lacks a number of residues necessary for activity. ACCSL is encoded by a gene that maps to human chromosome 11, which houses over 1,400 genes and comprises nearly 4% of the human genome. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are associated with defects in genes that maps to chromosome 11.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: ACCSL (human) mapping to 11p11.2.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## SOURCE

ACCSL (S-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ACCSL 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-244861 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

ACCSL (S-20) is recommended for detection of ACCSL of 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).

Suitable for use as control antibody for ACCSL siRNA (h): sc-96779, ACCSL shRNA Plasmid (h): sc-96779-SH and ACCSL shRNA (h) Lentiviral Particles: sc-96779-V.

Molecular Weight of ACCSL: 65 kDa.

## 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.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.