



BAAT (E-14): sc-107163

BACKGROUND

BAAT (bile acid coenzyme A (CoA):amino acid N-acyltransferase), also known as BAT, BACAT or glycine N-choyltransferase, is a member of the C/M/P thioester hydrolase family of proteins. Localizing to the cytoplasm and to peroxisomes, BAAT plays an essential role in bile acid metabolism, being the sole enzyme responsible for catalyzing the second step in the conjugation of bile acids to taurine or glycine. The first step in this reaction is the conversion of bile acids to CoA thioesters by ACSVL6 (bile acid CoA ligase). The conjugation of bile acids is important for its excretion into bile and it is also important for protection against toxicity by the accumulation of unconjugated bile acids. BAAT can be found in liver, pancreas, intestine and gallbladder mucosa. Mutations in the gene encoding BAAT have been associated with familial hypercholelanemia (FHCA), a disease characterized by fat malabsorption, an increase in serum bile acid concentrations and itching.

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CHROMOSOMAL LOCATION

Genetic locus: Baat (mouse) mapping to 4 B1.

SOURCE

BAAT (E-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of BAAT of mouse 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-107163 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

BAAT (E-14) is recommended for detection of BAAT of mouse and rat 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 BAAT siRNA (m): sc-141462, BAAT shRNA Plasmid (m): sc-141462-SH and BAAT shRNA (m) Lentiviral Particles: sc-141462-V.

Molecular Weight of BAAT: 50 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.

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.