

Product datasheet

Anti-BAAT antibody ab234803

2 Images

Overview

Product name	Anti-BAAT antibody
Description	Rabbit polyclonal to BAAT
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, IHC-P
Species reactivity	Reacts with: Human
Immunogen	<p>Recombinant fragment corresponding to Human BAAT aa 313-400. Sequence:</p> <p>IEEAQQQLFLVGGEDKTINSAHAEQAIGQLKRHGKNN WTLLSYPGAGH LIEPPYSPLCCASTTHDLRLHWGGEVIPHAAAQEHAW K</p> <p>Database link: Q14032</p> <p style="text-align: right;">   </p>
Positive control	IHC-P: Human liver cancer tissue. ICC/IF: HepG2 cells.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7.40 Preservative: 0.03% Proclin Constituents: 50% Glycerol, PBS</p>
Purity	Protein G purified
Purification notes	Purity >95%.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab234803** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		1/50 - 1/200.
IHC-P		1/20 - 1/200.

Target

Function

Involved in bile acid metabolism. In liver hepatocytes catalyzes the second step in the conjugation of C24 bile acids (choloneates) to glycine and taurine before excretion into bile canaliculi. The major components of bile are cholic acid and chenodeoxycholic acid. In a first step the bile acids are converted to an acyl-CoA thioester, either in peroxisomes (primary bile acids deriving from the cholesterol pathway), or cytoplasmic at the endoplasmic reticulum (secondary bile acids). May catalyze the conjugation of primary or secondary bile acids, or both. The conjugation increases the detergent properties of bile acids in the intestine, which facilitates lipid and fat-soluble vitamin absorption. In turn, bile acids are deconjugated by bacteria in the intestine and are recycled back to the liver for re-conjugation (secondary bile acids). May also act as an acyl-CoA thioesterase that regulates intracellular levels of free fatty acids. In vitro, catalyzes the hydrolysis of long- and very long-chain saturated acyl-CoAs to the free fatty acid and coenzyme A (CoASH), and conjugates glycine to these acyl-CoAs.

Tissue specificity

Expressed in liver, gallbladder mucosa and pancreas.

Involvement in disease

Defects in BAAT are involved in familial hypercholanemia (FHCA) [MIM:607748]. FHCA is a disorder characterized by elevated serum bile acid concentrations, itching, and fat malabsorption.

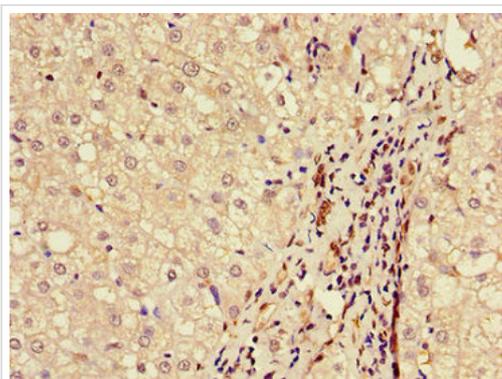
Sequence similarities

Belongs to the C/M/P thioester hydrolase family.

Cellular localization

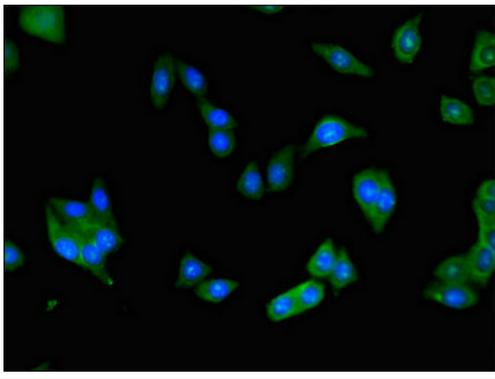
Cytoplasm.

Images



Paraffin-embedded human liver cancer tissue stained for BAAT using ab234803 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BAAT antibody (ab234803)



Immunocytochemistry/ Immunofluorescence - Anti-BAAT antibody (ab234803)

HepG2 (human liver hepatocellular carcinoma cell line) cells stained for BAAT (green) using ab234803 at 1/100 dilution in ICC/IF, followed by Alexa Fluor® 488 conjugated Goat Anti-Rabbit IgG (H+L).

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