Datasheet for ABIN5518721

anti-ACSL5 antibody (Middle Region)

1 Image

Go to Product page

Overview

Quantity:	100 µg
Target:	ACSL5
Binding Specificity:	AA 337-378, Middle Region
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ACSL5 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-ACSL5 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human ACSL5, different from the related mouse and rat sequences by six amino acids.
Sequence:	ADDMKTLKPT LFPAVPRLLN RIYDKVQNEA KTPLKKFLLK LA
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-ACSL5 Antibody Picoband® (ABIN5518721). Tested in WB, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	ACSL5
Alternative Name:	ACSL5 (ACSL5 Products)
Background:	Synonyms: Long-chain-fatty-acid--CoA ligase 5,6.2.1.3,Long-chain acyl-CoA synthetase 5,LACS 5,ACSL5,ACS5, FACL5,UNQ633/PRO1250, Tissue Specificity: Expressed in heart, brain, placenta, ovary and small intestine. Isoform Short is found in the ovary. Background: Long-chain-fatty-acid-CoA ligase 5 is an enzyme that in humans is encoded by the ACSL5 gene. The protein encoded by this gene is an isozyme of the long-chain fatty-acid-coenzyme A ligase family. Although differing in substrate specificity, subcellular localization, and tissue distribution, all isozymes of this family convert free long-chain fatty acids into fatty acyl-CoA esters, and thereby play a key role in lipid biosynthesis and fatty acid degradation. This isozyme is highly expressed in uterus and spleen, and in trace amounts in normal brain, but has markedly increased levels in malignant gliomas. This gene functions in mediating fatty acid-induced glioma cell growth. Three transcript variants encoding two different isoforms have been found for this gene.
Molecular Weight:	76 kDa
Gene ID:	51703

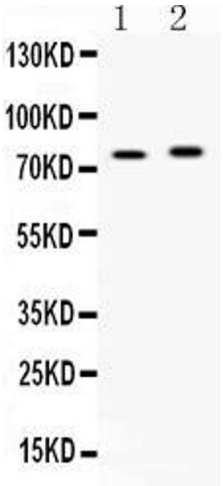
Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL, Human, Mouse, Rat Flow Cytometry(Fixed), 1-3 µg/1x10^6 cells, Human 1. "Entrez Gene: ACSL5 acyl-CoA synthetase long-chain family member 5". 2. Yamashita Y, Kumabe T, Cho YY, Watanabe M, Kawagishi J, Yoshimoto T, Fujino T, Kang MJ, Yamamoto TT (Dec 2000). "Fatty acid induced glioma cell growth is mediated by the acyl-CoA synthetase 5 gene located on chromosome 10q25.1-q25.2, a region frequently deleted in malignant gliomas". Oncogene. 19 (51): 5919-25.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Images



Western Blotting

Image 1. Western blot analysis of ACSL5 expression in rat brain extract (Lane 1) and mouse brain extract (Lane 2). ACSL5 at 76KD was detected using rabbit anti- ACSL5 Antigen Affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).