CD Creative Diagnostics®

Anti-ACSL5 (aa 91-186) polyclonal antibody (DPAB-DC2200)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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.
Immunogen	ACSL5 (NP_057318, 91 a.a. ~ 186 a.a) partial recombinant protein with GST tag. The sequence is PQPVLPLLDLNNQSVGIEGGARKGVSQKNNDLTSCCFSDAKTMYEVFQRGLAVSDNGPCL GYRKPNQPYRWLSYKQVSDRAEYLGSCLLHKGYKSS
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	ACSL5 acyl-CoA synthetase long-chain family member 5 [Homo sapiens (human)]
Official Symbol	ACSL5
Synonyms	ACSL5; acyl-CoA synthetase long-chain family member 5; ACS2; ACS5; FACL5; long-chain-fatty-acid--CoA ligase 5; LACS 5; fatty acid coenzyme A ligase 5; long-chain acyl-CoA synthetase 5; FACL5 for fatty acid coenzyme A ligase 5; long-chain fatty acid coenzyme A ligase 5; fatty-acid-Coenzyme A ligase, long-chain 5;
Entrez Gene ID	51703
Protein Refseq	NP_057318
UniProt ID	Q9ULC5
Chromosome Location	10q25.1-q25.2
Pathway	Adipocytokine signaling pathway; Fatty Acid Beta Oxidation; Fatty Acyl-CoA Biosynthesis; Fatty acid degradation.
Function	ATP binding; long-chain fatty acid-CoA ligase activity;