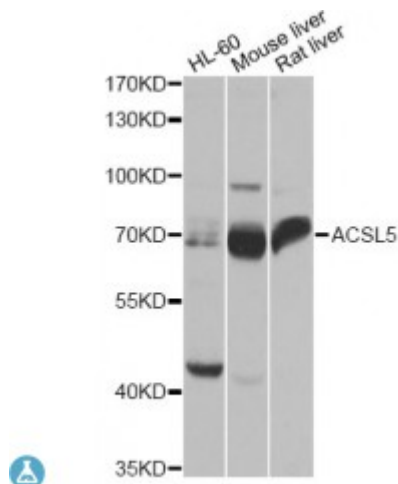


Anti-ACSL5 Antibody



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.

Model	STJ116065
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 500-739 of human ACSL5 (NP_057318.2).
Gene ID	51703
Gene Symbol	ACSL5
Dilution range	WB 1:500 - 1:2000
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	Long-chain-fatty-acid--CoA ligase 5

Molecular Weight	75.991 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:16526OMIM:605677Reactome:R-HSA-75876
Alternative Names	Long-chain-fatty-acid--CoA ligase 5
Function	Acyl-CoA synthetases (ACSL) activate long-chain fatty acids for both synthesis of cellular lipids, and degradation via beta-oxidation, ACSL5 may activate fatty acids from exogenous sources for the synthesis of triacylglycerol destined for intracellular storage , Utilizes a wide range of saturated fatty acids with a preference for C16-C18 unsaturated fatty acids , It was suggested that it may also stimulate fatty acid oxidation , At the villus tip of the crypt-villus axis of the small intestine may sensitize epithelial cells to apoptosis specifically triggered by the death ligand TRAIL, May have a role in the survival of glioma cells,
Cellular Localization	Mitochondrion, Endoplasmic reticulum, Mitochondrion outer membrane

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