

ACSL5 Antibody (R32803)

Catalog No.	Formulation	Size
R32803	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

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Availability	1-3 business days
Species Reactivity	Mouse, Rat
Predicted Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA, 0.025% sodium azide
UniProt	Q9ULC5
Applications	Western Blot : 0.5-1ug/ml
Limitations	This ACSL5 antibody is available for research use only.



Western blot testing of 1) rat brain and 2) mouse brain lysate with ACSL5 antibody at 0.5ug/ml. Predicted molecular weight ~76 kDa.

Description

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.

Application Notes

Optimal dilution of the ACSL5 antibody should be determined by the researcher.

Immunogen

Amino acids 337-378 (ADDMKTLKPTLFPVPRLLNRIYDKVQNEAKTPLKKFLLKLA) from the human protein were used as the immunogen for the ACSL5 antibody.

Storage

After reconstitution, the ACSL5 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.