

## Product datasheet for **TA811884S**

### ACSL5 Mouse Monoclonal Antibody [Clone ID: OTI1C6]

#### Product data:

|                         |   |
|-------------------------|---|
| Product Type:           | Primary Antibodies  |
| Clone Name:             | OTI1C6  |
| Applications:           | WB  |
| Recommended Dilution:   | WB 1:500~2000   |
| Reactivity:             | Human, Mouse  |
| Host:                   | Mouse   |
| Isotype:                | IgG1  |
| Clonality:              | Monoclonal  |
| Immunogen:              | Human recombinant protein fragment corresponding to amino acids 104-620 of human ACSL5 (NP_976313) produced in E.coli.                  |
| Formulation:            | PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.  |
| Concentration:          | 1 mg/ml   |
| Purification:           | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)                               |
| Conjugation:            | Unconjugated  |
| Storage:                | Store at -20°C as received.   |
| Stability:              | Stable for 12 months from date of receipt.  |
| Predicted Protein Size: | 75.8 kDa  |
| Gene Name:              | acyl-CoA synthetase long-chain family member 5  |
| Database Link:          | <a href="#">NP_976313</a><br><a href="#">Entrez Gene 433256 Mouse</a> <a href="#">Entrez Gene 51703 Human</a><br><a href="#">Q9ULC5</a> |



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**Background:**

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. [provided by RefSeq, Jul 2008]

**Synonyms:**

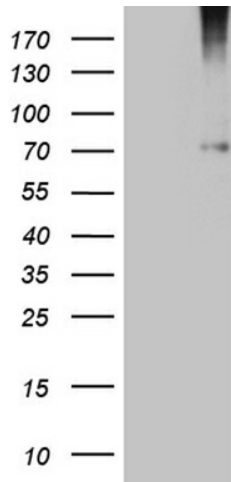
ACS2; ACS5; FAFL5

**Protein Families:**

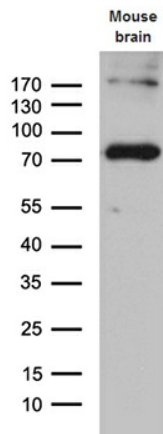
Transmembrane

**Protein Pathways:**

Adipocytokine signaling pathway, Fatty acid metabolism, Metabolic pathways, PPAR signaling pathway

**Product images:**

HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY ACSL5 ([RC213380], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ACSL5. Positive lysates [LY404321] (100ug) and [LC404321] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (35ug) from mouse brain tissue lysate by using anti-ACSL5 monoclonal antibody (1:500).