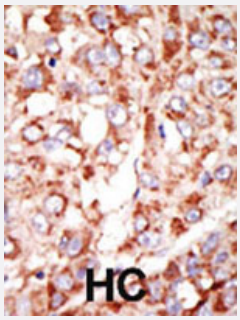
# ACSL3 polyclonal antibody

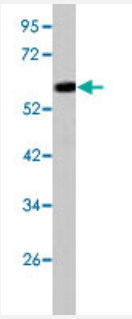
Catalog # PAB2502 Size 400 uL

## Applications




### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human hepatocellular carcinoma tissue reacted with the ACSL3 polyclonal antibody (Cat # PAB2502) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry ; clinical relevance has not been evaluated. HC = hepatocarcinoma.




### Western Blot (Cell lysate)

Western blot analysis of 293 cell lysate (35 ug/lane) with ACSL3 polyclonal antibody (Cat # PAB2502).

## Specification

| | |
|---|---|
| **Product Description** | Rabbit polyclonal antibody raised against synthetic peptide of ACSL3. |
| **Immunogen** | A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human ACSL3. |
| **Host** | Rabbit |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Purification** | Protein G purification |

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| | |
|---|---|
| **Recommend Usage** | Western Blot (1:1000)<br>Immunohistochemistry (1:50-100)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS (0.09% sodium azide) |
| **Storage Instruction** | Store at 4°C. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Formalin-fixed and paraffin-embedded human hepatocellular carcinoma tissue reacted with the ACSL3 polyclonal antibody (Cat # PAB2502) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry ; clinical relevance has not been evaluated. HC = hepatocarcinoma.

- Western Blot (Cell lysate)

  Western blot analysis of 293 cell lysate (35 ug/lane) with ACSL3 polyclonal antibody (Cat # PAB2502).

## Gene Info — ACSL3

| | |
|---|---|
| **Entrez GeneID** | 2181 |
| **Protein Accession#** | ACSL3_HUMAN |
| **Gene Name** | ACSL3 |
| **Gene Alias** | ACS3, FACL3, PRO2194 |
| **Gene Description** | acyl-CoA synthetase long-chain family member 3 |
| **Omim ID** | 602371 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | The protein encoded by this gene is an isozyme of the long-chain fatty-acid-coenzyme A ligase fa mily. Although differing in substrate specificity, subcellular localization, and tissue distribution, all i sozymes of this family convert free long-chain fatty acids into fatty acyl-CoA esters, and thereby pl ay a key role in lipid biosynthesis and fatty acid degradation. This isozyme is highly expressed in brain, and preferentially utilizes myristate, arachidonate, and eicosapentaenoate as substrates. T he amino acid sequence of this isozyme is 92% identical to that of rat homolog. Two transcript var iants encoding the same protein have been found for this gene. [provided by RefSeq |

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| Other Designations | OTTHUMP00000164212\|fatty-acid-Coenzyme A ligase, long-chain 3\|lignoceroyl-CoA synthase |
|---|---|

## Publication Reference

- Genomic organization and transcription units of the human acyl-CoA synthetase 3 gene.

  Minekura H, Kang MJ, Inagaki Y, Suzuki H, Sato H, Fujino T, Yamamoto TT.

  Gene 2001 Oct; 278(1-2):185.

- Human acyl-coenzyme A synthetase 3 cDNA and localization of its gene (ACS3) to chromosome band 2q34-q35.

  Minekura H, Fujino T, Kang MJ, Fujita T, Endo Y, Yamamoto TT.

  Genomics 1997 May; 42(1):180.

## Pathway

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

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