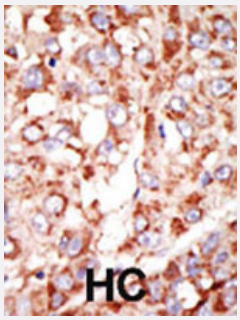
ACSL3 polyclonal antibody

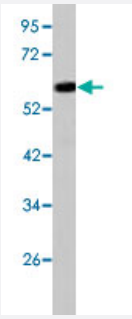
Catalog # PAB2502 Size 400 uL

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) Immunohistochemistry (1:50-100) 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. 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)

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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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