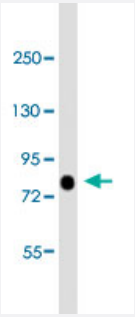
ACSL4 polyclonal antibody

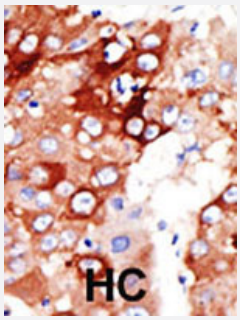
Catalog # PAB2504 Size 400 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of HepG2 whole cell lysate with ACSL4 polyclonal antibody (Cat # PAB2504) followed by HRP conjugated goat anti-rabbit IgG (H+L) as second antibody.



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

Formalin-fixed and paraffin-embedded human hepatocellular carcinoma tissue reacted with the ACSL4 polyclonal antibody (Cat # PAB2504) , 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.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of ACSL4.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to amino acids 244 -274 at internal region of human ACSL4.
Sequence	IHSMQSVEELGSNPENLGIPPSRPTPSDMAI
Host	Rabbit
Reactivity	Human
Form	Liquid

Purification	Protein G purification
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

- Western Blot (Cell lysate)

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Gene Info — ACSL4

Entrez GeneID	2182
Protein Accession#	ACSL4_HUMAN
Gene Name	ACSL4
Gene Alias	ACS4, FACL4, LACS4, MRX63, MRX68
Gene Description	acyl-CoA synthetase long-chain family member 4
Omim ID	300157 300387
Gene Ontology	Hyperlink

Gene Summary	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 preferentially utilizes arachidonate as substrate. The absence of this enzyme may contribute to the mental retardation or Alport syndrome. Alternative splicing of this gene generates 2 transcript variants. [provided by RefSeq
Other Designations	OTTHUMP00000023846|acyl-CoA synthetase 4|fatty-acid-Coenzyme A ligase, long-chain 4|lignoceroyl-CoA synthase|long-chain fatty-acid-Coenzyme A ligase 4

Publication Reference

- An Evaluation of Fatty Acid-CoA Ligase 4 in Breast Cancer.

  Tsai CH, Sheen-Chen SM, Huang CY, Chen YJ, Chi SY, Ko SF, Lee YW, Liang JL, Hsu HW, Huang EY, Chen HC, Huang CC, Rau KM, Tang RP.

  Anticancer Research 2014 Mar; 34(3):1239.

  Application: IHC, Human, Breast cancer tissue

- ACSL3 and GSK-3β are essential for lipid upregulation induced by endoplasmic reticulum stress in liver cells.

  Chang YS, Tsai CT, Huangfu CA, Huang WY, Lei HY, Lin CF, Su IJ, Chang WT, Wu PH, Chen YT, Hung JH, Young KC, Lai MD.

  Journal of Cellular Biochemistry 2011 Mar; 112(3):881.

  Application: WB-Ce, Human, HepG2, Huh-7 cells

Pathway

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

Disease

- Depressive Disorder
- Erythema
- Mental Retardation

- Metabolic Syndrome X
- Schizophrenia