ACSL3
Polyclonal ANTIBODY
Catalog Number: 20710-1-AP

Basic Information
Catalog Number: 20710-1-AP
Size: 42 μg/150 μl
Source: Rabbit
Isotype: IgG
Purification Method: Antigen affinity purification
Immunogen Catalog Number: GenBank Accession Number: NM_004457
GeneID (NCBI): 2181
Full Name: acyl-CoA synthetase long-chain family member 3
Calculated MW: 80 kDa
Observed MW: 70-80 kDa
Recommended Dilutions: WB 1:500-1:1000, IF 1:10-1:100

Applications
Tested Applications: IF, WB, ELISA
Species Specificity: human, mouse
Note: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0
Positive Controls:
WB: mouse kidney tissue; HEK-293 cells
IF: HepG2 cells

Background Information
ACSL3, also named as ACSL3, FACL3 and LACS3, belongs to the ATP-dependent AMP-binding enzyme family. Acyl-CoA synthetases (ACSL) activate long-chain fatty acids for both synthesis of cellular lipids, and degradation via beta-oxidation. ACSL3 mediates hepatic lipogenesis. Preferentially uses myristate, laurate, arachidonate and eicosapentaenoate as substrates. Has mainly an anabolic role in energy metabolism. Required for the incorporation of fatty acids into phosphatidylcholine, the major phospholipid located on the surface of VLDL (very low-density lipoproteins). The antibody is specific to ACSL3.

Notable Publications
Author: Shuyan Zhang
Pubmed ID: 27386790
Journal: Sci Rep
Application: WB
Author: Lina Zhou
Pubmed ID: 30594429
Journal: J Proteome Res
Application: WB

Storage
Store at -20°C. Stable for one year after shipment.
Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact: T 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

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Selected Validation Data

WB result of ACSL3 antibody (20710-1-AP; 1:500; incubated at room temperature for 1.5 hours) with sh-Control and sh-ACSL3 transfected HEK-293 cells.

Mouse kidney tissue were subjected to SDS PAGE followed by western blot with 20710-1-AP (ACSL3 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.

Immunofluorescent analysis of HepG2 cells, using ACSL3 antibody 20710-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).