For Research Use Only

ACSL1 Polyclonal antibody

Catalog Number:13989-1-AP

Featured Product

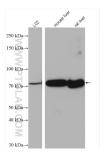
41 Publications



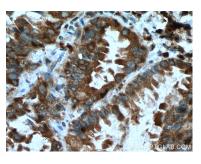
Catalog Number: GenBank Accession Number: **Purification Method: Basic Information** 13989-1-AP BC050073 Antigen affinity purification GenelD (NCBI): Recommended Dilutions: Size: 650 µg/ml 2180 WB 1:1000-1:6000 IP 0.5-4.0 ug for 1.0-3.0 mg of total UNIPROT ID: Source: protein lysate Rabbit P33121 IHC 1:50-1:500 Full Name: Isotype: IF 1:20-1:200 lgG acyl-CoA synthetase long-chain family member 1 Immunogen Catalog Number: AG5059 Calculated MW: 78 kDa **Observed MW:** 68 kDa, 78 kDa **Applications Tested Applications:** Positive Controls: IF/ICC, IHC, IP, WB, ELISA WB: LO2 cells, mouse cerebellum tissue, mouse liver **Cited Applications:** tissue, rat liver tissue WB, IP, IF, IHC, Cell treatment IP: mouse liver tissue. Species Specificity: IHC : human lung cancer tissue, human liver cancer human, mouse, rat tissue, human heart tissue **Cited Species:** IF : HepG2 cells, human, rat, mouse Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 ACSL1(Long-chain-fatty-acid--CoA ligase 1) is also named as FACL1, FACL2, LACS, LACS1, LACS2 and belongs to the **Background Information** ATP-dependent AMP-binding enzyme family. ACSL1 is a 75 kDa protein that is associated peripherally with the plasma membrane(Brian M Wiczer, etc., 2006). ACSL1 is abundantly expressed in tissues, such as liver and brown fat, that metabolize substantial amounts of triglycerides as fuel, and as such, a deficiency in ACSL1 function could have a more profound affect in those cells, resulting in hepatosteatosis and potentially increased very low density lipoprotein production by the liver or decreased thermogenic capacity in brown adipose tissue(PMID:19429676). An anti-rat ACSL1 antibody recognized a band of the predicted 68 kDa in high-speed supernatant from rat liver and in human and murine SMCs, monocyte-derived macrophages, and murine peritoneal macrophages (PMID:17259370). It has 2 isoforms produced by alternative splicing. **Notable Publications** Author Pubmed ID Journal Application Yuxiang Sun 31590050 **Colloids Surf B Biointerfaces** WB De Huang Cell Rep WB 25242319 Theranostics ١F Oixue Wang 30279734 Storage: 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 $^{\circ}$ C storage

For technical support and original validation data for this product please contact: T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

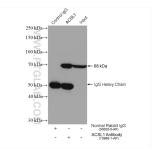
Selected Validation Data



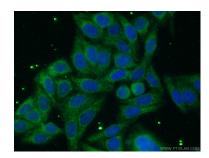
Various lysates were subjected to SDS PAGE followed by western blot with 13989-1-AP (ACSL1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 13989-1-AP (ACSL1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-ACSL1 (IP:13989-1-AP, 4ug; Detection:13989-1-AP 1:1000) with mouse liver tissue lysate 3040 ug.



Immunofluorescent analysis of (10% Formaldehyde) fixed HepC2 cells using 13989-1-AP (ACSL1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).