For Research Use Only

ACSL1 Polyclonal antibody Catalog Number:13989-1-AP Featured Product

Featured Product 62 Publications



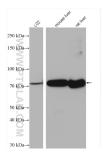
Basic Information	Catalog Number: 13989-1-AP Size: 150ul , Concentration: 1000 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG5059	GenBank Accession Number: BC050073 GeneID (NCBI): 2180 UNIPROT ID: P33121 Full Name: acyl-CoA synthetase long-cha family member 1 Calculated MW: 78 kDa Observed MW: 68 kDa, 78 kDa	Purification Method: Antigen affinity purification Recommended Dilutions: WB: 1:1000-1:6000 IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC: 1:200-1:800 IF/ICC: 1:400-1:1600
Applications	Tested Applications: WB, IHC, IF/ICC, IP, ELISA Cited Applications: WB, IHC, IF, IP Species Specificity: human, mouse, rat Cited Species: human, mouse, rat, pig Note-IHC: suggested antigen rations retrieval may be performed we buffer pH 6.0	WB : Ld tissue, IP : mc IHC : h humar IF/ICC etrieval with rely, antigen	ve Controls: D2 cells, mouse cerebellum tissue, mouse liver rat liver tissue buse liver tissue, numan lung squamous cell carcinoma tissue, n heart tissue, human liver cancer tissue C : HepG2 cells,
	ACSL1(Long-chain-fatty-acidCoA ligase 1) is also named as FACL1, FACL2, LACS, LACS1, LACS2 and belongs to the 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.		
Background Information	ATP-dependent AMP-binding enzyme plasma membrane(Brian M Wiczer, et that metabolize substantial amounts a more profound affect in those cells, lipoprotein production by the liver or anti-rat ACSL1 antibody recognized a human and murine SMCs, monocyte-o	family. ACSL1 is a 75 kDa pro c., 2006). ACSL1 is abundantly of triglycerides as fuel, and as resulting in hepatosteatosis ar decreased thermogenic capaci band of the predicted 68 kDa i derived macrophages, and mur	tein that is associated peripherally with the expressed in tissues, such as liver and brown fat such, a deficiency in ACSL1 function could have nd potentially increased very low density ty in brown adipose tissue(PMID:19429676). An n high-speed supernatant from rat liver and in
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T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

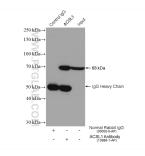
E: proteintech@ptglab.com W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



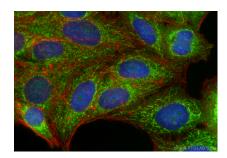
Various lysates were subjected to SDS PAGE followed by western blot with 13989-1-AP (ACSL1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



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



Immunohistochemical analysis of paraffinembedded human lung squamous cell carcinoma tissue slide using 13989-1-AP (ACSL1 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using ACSL1 antibody (13989-1-AP) at dilution of 1:800 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594phalloidin (red).