## For Research Use Only

## ACSL1 Polyclonal antibody

Catalog Number:13989-1-AP

Featured Product

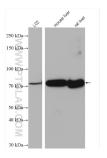
42 Publications



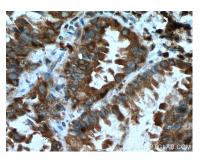
Basic Information	Catalog Number: 13989-1-AP	P33121 Full Name: acyl-CoA synthetase long-chain family member 1 Calculated MW: 78 kDa		Purification Method: Antigen affinity purification Recommended Dilutions: WB 1:1000-1:6000 IP 0.5-4.0 ug for 1.0-3.0 mg of total				
	Size:							
	150ul, Concentration: 650 µg/ml by Nanodrop and 367 µg/ml by Bradford method using BSA as the standard; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG5059							
				protein lysate IHC 1:50-1:500 IF 1:20-1:200				
					Observed MW: 68 kDa, 78 kDa			
					Applications	Tested Applications:		Positive Con
		WB, IP, IF, IHC, ELISA Cited Applications:						
WB, IP, IF, IHC, Cell treatment		IP : mouse liv						
Species Specificity: human, mouse, rat IHC : huma		IHC : human	n lung cancer tissue, human liver cancer					
Cited Species: human, rat, mouse	Cited Species: IF : HenG2 (			an heart tissue cells,				
Note-IHC: suggested antigen r TE buffer pH 9.0; (*) Alternativ retrieval may be performed w buffer pH 6.0	vely, antigen							
Background Information	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 far 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). I has 2 isoforms produced by alternative splicing.							
	human and murine SMCs, monocyte-	derived macrophages, a	-		from rat liver and in			
Notable Publications	human and murine SMCs, monocyte- has 2 isoforms produced by alternativ	derived macrophages, a	nd murine per		from rat liver and in ges (PMID:17259370).			
Notable Publications	human and murine SMCs, monocyte- has 2 isoforms produced by alternative Author Pub	derived macrophages, a ve splicing. med ID Journal	nd murine per	ritoneal macropha	from rat liver and in			
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Notable Publications	human and murine SMCs, monocyte- has 2 isoforms produced by alternative Author Pub Yuxiang Sun 315 De Huang 252	derived macrophages, a ve splicing. med ID Journal 90050 Colloid	nd murine per s Surf B Bioint p	ritoneal macropha	from rat liver and in ges (PMID:17259370). Application WB			
Notable Publications Storage	human and murine SMCs, monocyte- has 2 isoforms produced by alternative Author Pub Yuxiang Sun 315 De Huang 252	derived macrophages, a ve splicing. med ID Journal 90050 Colloid 42319 Cell Re 79734 Theranc er shipment.	nd murine per s Surf B Bioint p	ritoneal macropha	from rat liver and in ges (PMID:17259370). Application WB WB			
	human and murine SMCs, monocyte-   has 2 isoforms produced by alternative   Author Pub   Yuxiang Sun 315   De Huang 252   Qixue Wang 302   Storage: Storage:   Storage Buffer: Storage Buffer:	derived macrophages, a ve splicing. med ID Journal 90050 Colloid 42319 Cell Re 79734 Theranc er shipment. % glycerol pH 7.3.	nd murine per s Surf B Bioint p	ritoneal macropha	from rat liver and in ges (PMID:17259370). Application WB WB			

For technical support and original validation dat T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) or this product please contact: 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.

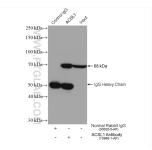
## Selected Validation Data



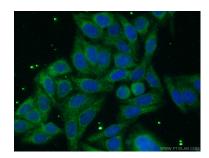
Various lysates were subjected to SDS PAGE followed by western blot with 13989-1-AP (ACSL1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



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).