

For Research Use Only

ACAA1 Polyclonal antibody

Catalog Number: 12319-2-AP **15 Publications**



Basic Information

Catalog Number: 12319-2-AP	GenBank Accession Number: BC011977	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 550 µg/ml by Nanodrop;	GeneID (NCBI): 30	Recommended Dilutions: WB 1:500-1:2000 IHC 1:20-1:200 IF 1:250-1:1000
Source: Rabbit	Full Name: acetyl-Coenzyme A acyltransferase 1	
Isotype: IgG	Calculated MW: 424 aa, 44 kDa	
Immunogen Catalog Number: AG2972	Observed MW: 41 kDa	

Applications

Tested Applications: IF, IHC, WB, ELISA	Positive Controls: WB : LO2 cells, A549 cells, human lung tissue IHC : human thyroid cancer tissue, human lung tissue, human prostate cancer tissue, human liver cancer tissue IF : U-251 cells,
Cited Applications: IF, IHC, WB	
Species Specificity: human, mouse, rat	
Cited Species: 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

Background Information

ACAA1 (acetyl-CoA acyltransferase 1) is an enzyme involved in lipid β -oxidation and provides substrates to the tricarboxylic acid (TCA) cycle, a critical step in cellular metabolism (PMID:33194642). ACAA1 is also a biomarker in type 2 diabetes (T2D), predicting the pre-diabetic metabolic signature in mouse models (PMID:25784953). Moreover, ACAA1 is highly expressed in TNBC, serving as a potential therapeutic target in ACAA1-high tumors and a predictive biomarker of resistance to CDK4/6 inhibitors for RB1-proficient patients (PMID:37129951).

Notable Publications

Author	Pubmed ID	Journal	Application
Pablo Ranea-Robles	34651140	Kidney360	WB
Lei Ye	33491741	Int J Oncol	WB
Chaochao Luo	30499671	J Agric Food Chem	IF

Storage

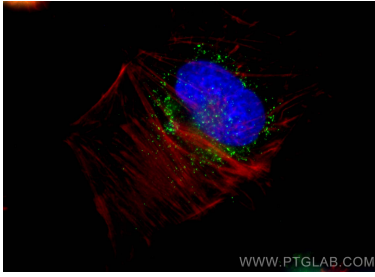
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

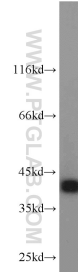
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

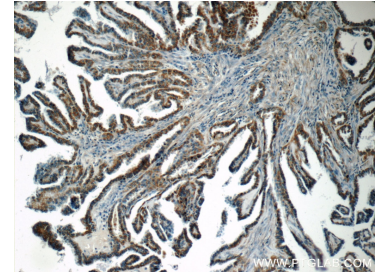
Selected Validation Data



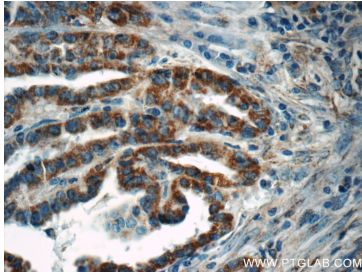
Immunofluorescent analysis of (-20°C Ethanol) fixed U-251 cells using 12319-2-AP (ACAA1 antibody), at dilution of 1:500 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



L02 cells were subjected to SDS PAGE followed by western blot with 12319-2-AP (ACAA1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 12319-2-AP (ACAA1 Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 12319-2-AP (ACAA1 Antibody) at dilution of 1:50 (under 40x lens).