

For Research Use Only

ACAA1 Polyclonal antibody

Catalog Number: 12319-2-AP

18 Publications



Basic Information

Catalog Number:

12319-2-AP

Size:

150ul, Concentration: 550 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2972

GenBank Accession Number:

BC011977

GeneID (NCBI):

30

UNIPROT ID:

P09110

Full Name:

acetyl-Coenzyme A acyltransferase 1

Calculated MW:

424 aa, 44 kDa

Observed MW:

41 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:20-1:200

IF/ICC 1:250-1:1000

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : L02 cells, A549 cells, human lung tissue

IHC : human thyroid cancer tissue, human lung tissue, human prostate cancer tissue, human liver cancer tissue

IF/ICC : U-251 cells,

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

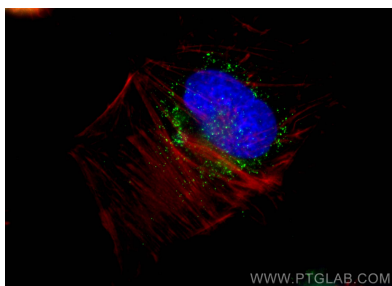
For technical support and original validation data for this product please contact:

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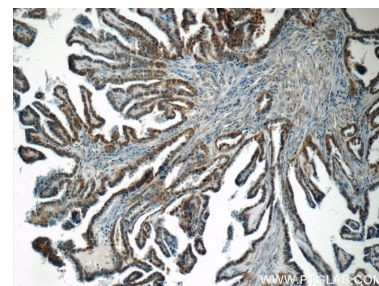
Selected Validation Data



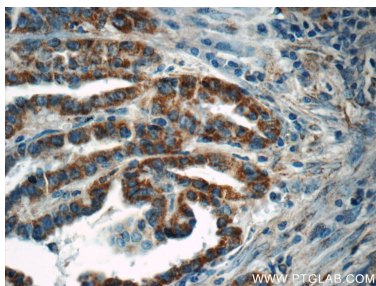
Immunofluorescent analysis of (-20°C Ethanol) fixed U-251 cells using 12319-2-AP (ACAA1 antibody), at dilution of 1:500 and Coralite@488-Conjugated Goat Anti-Rabbit IgG(H+L).



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).