

For Research Use Only

# CoraLite® Plus 488-conjugated ACAA1 Polyclonal antibody

Catalog Number: CL488-12319



## Basic Information

Catalog Number:

CL488-12319

Size:

100ul , Concentration: 1000 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:

IF/ICC 1:50-1:500

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

## Applications

Tested Applications:

IF/ICC

Species Specificity:

human, mouse, rat

Positive Controls:

IF/ICC : U-251 cells,

## Background Information

ACAA1 (acetyl-CoA acyltransferase 1) is an enzyme involved in lipid  $\beta$ -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).

## Storage

Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

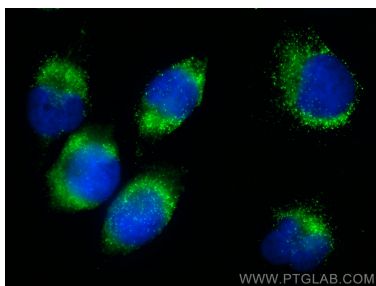
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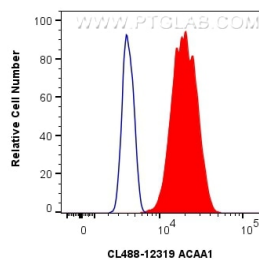
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## Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed U-251 cells using CoraLite® Plus 488 ACAA1 antibody (CL488-12319) at dilution of 1:200.



$1 \times 10^6$  U-251 cells were intracellularly stained with 0.4  $\mu$ g CoraLite® Plus 488-conjugated ACAA1 Polyclonal antibody (CL488-12319)(red), or 0.4  $\mu$ g CoraLite® Plus 488-conjugated Rabbit IgG control Rabbit PolyAb (CL488-30000) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).