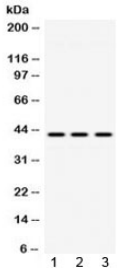
ACAA2 Antibody (R32490)

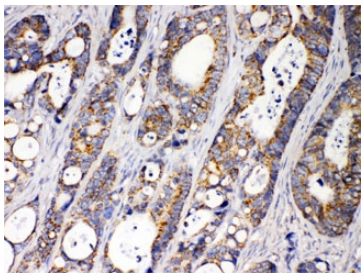
Catalog No.	Formulation	Size
R32490	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

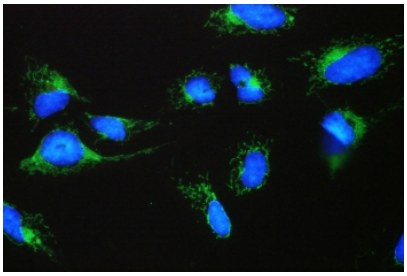
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	P42765
Localization	Cytoplasmic
Applications	Western blot: 0.5-1ug/ml IHC (FFPE): 1-2ug/ml IF/ICC (FFPE): 2-4ug/ml FACS: 1-3ug/10^6 cells
Limitations	This ACAA2 antibody is available for research use only.



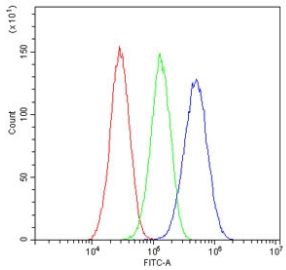
Western blot testing of 1) rat lung, 2) mouse brain and 3) human HeLa lysate with ACAA2 antibody at 0.5ug/ml. Predicted molecular weight ~42 kDa.



IHC testing of FFPE human intestinal cancer tissue with ACAA2 antibody at 1ug/ml. HIER: steam sections in pH6 citrate buffer for 20 min.



IF/ICC staining of FFPE human U-2 OS cells with ACAA2 antibody (green) at 2ug/ml and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Flow cytometry testing of human HepG2 cells with ACAA2 antibody at 1ug/10^6 cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= ACAA2 antibody.

Description

3-Ketoacyl-CoA thiolase, mitochondrial, also known as acetyl-Coenzyme A acyltransferase 2, is an acetyl-CoA C-acyltransferase enzyme that in humans is encoded by the ACAA2 gene. The ACAA2 gene encodes a 41.9 kDa protein that is composed of 397 amino acids and contains 88 observed peptides. The encoded protein catalyzes the last step of themitochondrial fatty acid beta oxidation spiral. Unlike most mitochondrial matrix proteins, it contains a non-cleavable amino-terminal targeting signal. Additionally, ACAA2 has been shown to be a functional BNIP3 binding partner, which provides a possible link between fatty acid metabolism and cell apoptosis.

Application Notes

Differences in protocols and secondary/substrate sensitivity may require the ACAA2 antibody to be titrated for optimal performance.

Immunogen

Amino acids 207-242 (EVKTKKGKQTMQVDEHARPQTTLEQLQKLPPVFKKD from the human protein were used as the immunogen for the ACAA2 antibody.

Storage

After reconstitution, the ACAA2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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