

Datasheet for ABIN4886414
anti-ACAA2 antibody (Middle Region)

2 Images

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Overview

Quantity:	100 µg
Target:	ACAA2
Binding Specificity:	AA 207-242, Middle Region
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ACAA2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for 3-ketoacyl-CoA thiolase, mitochondrial(ACAA2) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human ACAA2 (207-242aa EVKTKKGKQTMQVDEHARPQTTLQLQKLPPVFKKD), different from the related mouse sequence by one amino acid, and from the related rat sequence by two amino acids.
Sequence:	EVKTKKGKQT MQVDEHARPQ TTLQLQKLPPVFKKD
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for 3-ketoacyl-CoA thiolase, mitochondrial(ACAA2) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: acetyl-CoA acyltransferase 2

Product Details

Protein Name: 3-ketoacyl-CoA thiolase, mitochondrial

Purification: Immunogen affinity purified.

Target Details

Target: ACAA2

Alternative Name: ACAA2 ([ACAA2 Products](#))

Background: 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 the mitochondrial 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.

Synonyms: ACAA 2 | Acaa2 | Beta ketothiolase | Beta-ketothiolase | DSAEC | P42765

Gene ID: 10449

UniProt: [P42765](#)

Pathways: [Monocarboxylic Acid Catabolic Process](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.
Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.

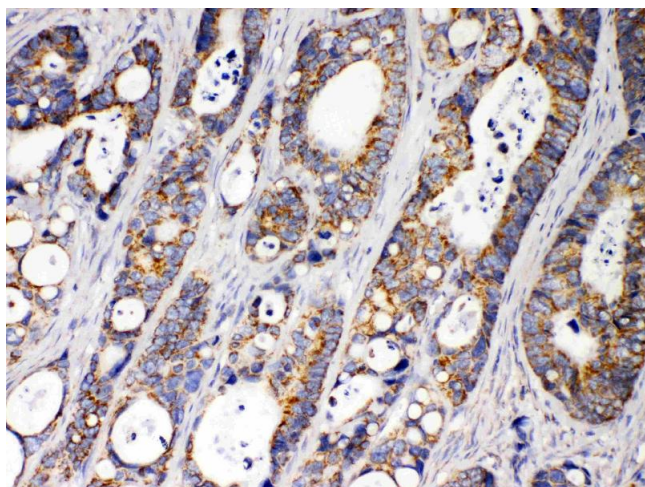
Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Restrictions: For Research Use only

Handling

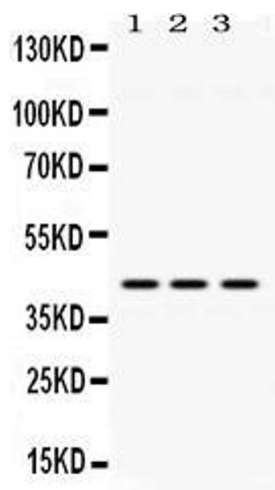
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Images



Immunohistochemistry

Image 1. ACAA2 was detected in paraffin-embedded sections of human intestinal cancer tissues using rabbit anti-ACAA2 Antigen Affinity purified polyclonal antibody (Catalog #) at 1 µg/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).



Western Blotting

Image 2. Western blot analysis of ACAA2 expression in rat lung extract (Lane 1), mouse brain extract (Lane 2) and HELA whole cell lysates (Lane 3). ACAA2 at 42KD was detected using rabbit anti- ACAA2 Antigen Affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).