

Rabbit ACAA2 Polyclonal Antibody | anti-ACAA2 antibody

Anti-ACAA2 Antibody

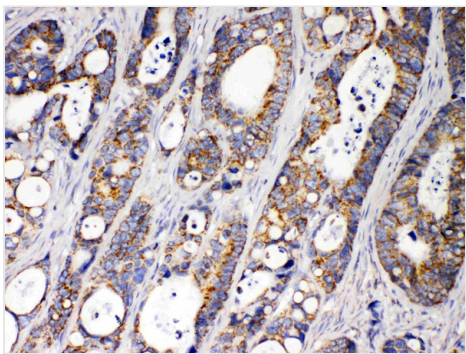
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA46813	Rabbit	Human, Mouse, Rat	Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

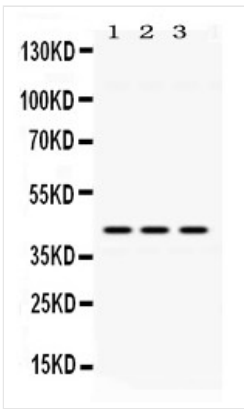
ACAA2; Polyclonal Antibody; Anti-ACAA2 Antibody; ACAA 2; Acaa2; Beta ketothiolase; Beta-ketothiolase; DSAEC; P42765; 3-ketoacyl-CoA thiolase; mitochondrial; acetyl-CoA acyltransferase 2; anti-ACAA2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	397
Applicable Applications for anti-ACAA2 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Notes	Tested Species: In-house tested species with positive results. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections. Other applications have not been tested.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human ACAA2 (207-242aa EVKTKKGKQTMQVDEHARPQTLEQLQKLPPVFKKD), different from the related mouse sequence by one amino acid, and from the related rat sequence by two amino acids.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



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



WB (Western Blot)
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 at 0.5 ug/mL. The blot was developed using chemiluminescence (ECL) method.

ADDITIONAL INFORMATION

Related Product Information for anti-ACAA2 antibody	Rabbit IgG polyclonal antibody for 3-ketoacyl-CoA thiolase, mitochondrial(ACAA2) detection. 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.
References	1. Cao W, Liu N, Tang S, Bao L, Shen L, Yuan H, Zhao X, Lu H (Jun 2008). "Acetyl-Coenzyme A acyltransferase 2 attenuates the apoptotic effects of BNIP3 in two human cell lines". Biochimica et Biophysica Acta 1780 (6): 873-80. 2. Kathiresan S, Melander O, Guiducci C, Surti A, Burt NP, Rieder MJ, Cooper GM, Roos C, Voight BF, Havulinna AS, Wahlstrand B, Hedner T, Corella D, Tai ES, Ordovas JM, Berglund G, Vartiainen E, Jousilahti P, Hedblad B, Taskinen MR, Newton-Cheh C, Salomaa V, Peltonen L, Groop L, Altshuler DM, Orho-Melander M (Feb 2008). "Six new loci associated with blood low-density lipoprotein cholesterol, high-density lipoprotein cholesterol or triglycerides in humans". Nature Genetics 40 (2): 189-97.

NCBI AND UNIPROT INFORMATION

NCBI GI #	167614485
NCBI GeneID	10449
NCBI Accession #	NP_006102.2
NCBI GenBank Nucleotide #	NM_006111.2
UniProt Accession #	P42765; Q9BUT6
Molecular Weight	41,924 Da
NCBI Official Full Name	3-ketoacyl-CoA thiolase, mitochondrial
NCBI Official Synonym Full Names	acetyl-CoA acyltransferase 2
NCBI Official Symbol	ACAA2
NCBI Official Synonym Symbols	DSAEC
NCBI Protein Information	3-ketoacyl-CoA thiolase, mitochondrial
UniProt Protein Name	3-ketoacyl-CoA thiolase, mitochondrial

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/acaa2-antibody-immunohistochemistry-western-blot-elisa/46813>