Product datasheet Anti-ACAA2 Antibody(原货号PB1075)

Catalog Number: PB10022

BOSTER®
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY

Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator, East Lake High-Tech Development Zone, Wuhan.

Web: www.boster.com Phone: 027-67845390/1/2 Email: boster@boster.com

Basic Inform	nation	
Product Name	Anti-ACAA2 Antibody(原货号PB1075)	
Gene Name	ACAA2	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, ICC/IF, FCM	
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.	
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human ACAA2, different from the related mouse sequence by one amino acid, and from the related rat sequence by two amino acids.	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	42 kDa	
Dilution Ratios	Western blot (WB): Immunohistochemistry (IHC): Immunocytochemistry/Immunofluorescence (ICC/IF): Flow Cytometry (Fixed): (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,o mins is required for the staining of formalin/paraffin sections determined by end user.	·

Storage

12 months from date of receipt, -20°C as supplied.

Background Information

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.

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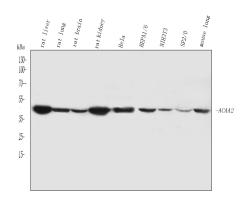
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Selected Validation Data



Western blot analysis of ACAA2(原PB10022PB1075) using anti-ACAA2(原PB10022PB1075) antibody (PB10022). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: rat liver tissue lysates,

Lane 2: rat lung tissue lysates,

Lane 3: rat brain tissue lysates,

Lane 4: rat kidney tissue lysates,

Lane 5: HELA whole cell lysates,

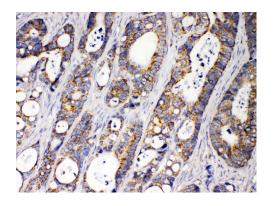
Lane 6: HEPA1/6 whole cell lysates,

Lane 7: NIH/3T3 whole cell lysates,

Lane 8: SP2/0 whole cell lysates,

Lane 9: mouse lung tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-ACAA2(原PB10022PB1075) antigen affinity purified polyclonal antibody (PB10022) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for ACAA2(原PB10022PB1075) at approximately 42 kDa. The expected band size for ACAA2(原PB10022PB1075) is at 42 kDa.



IHC analysis of ACAA2(原PB10022PB1075) using anti-ACAA2(原PB10022PB1075) antibody (PB10022).

ACAA2(原PB10022PB1075) was detected in a paraffin-embedded section of human intestinal cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-ACAA2(原PB10022PB1075) Antibody (PB10022) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.

Product datasheet

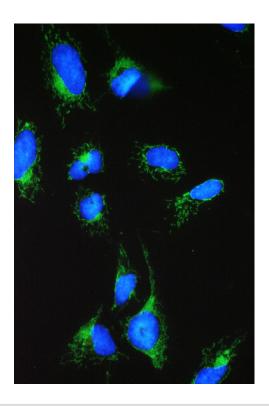
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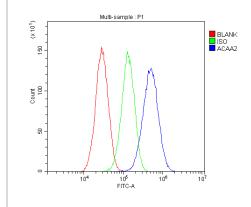


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IF analysis of ACAA2 using anti- ACAA2 antibody (PB10022). ACAA2 was detected in immunocytochemical section of U2OS cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 2µg/mL rabbit anti- ACAA2 Antibody ((PB10022) overnight at 4°C. DyLight488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



Flow Cytometry analysis of HepG2 cells using anti-ACAA2(原PB10022PB1075) antibody (PB10022).

Overlay histogram showing HepG2 cells stained with PB10022 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ACAA2(原PB10022PB1075) Antibody (PB10022) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.