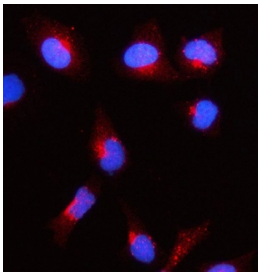
Acetyl-CoA acetyltransferase Antibody / ACAT1 (RQ8283)

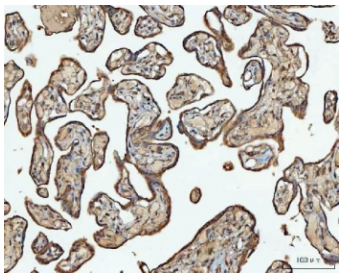
Catalog No.	Formulation	Size
RQ8283	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

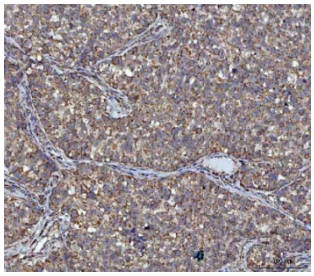
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P24752
Localization	Cytoplasm
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence: 5ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This Acetyl-CoA acetyltransferase antibody is available for research use only.



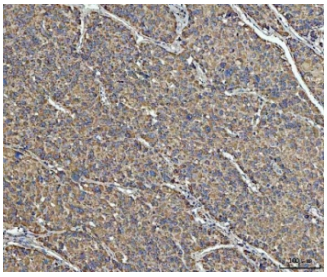
Immunofluorescent staining of FFPE human HeLa cells with Acetyl-CoA acetyltransferase antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



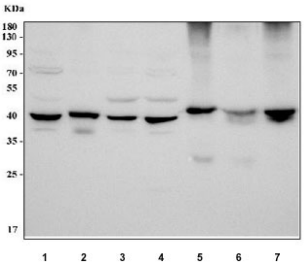
IHC staining of FFPE human placental tissue with Acetyl-CoA acetyltransferase antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



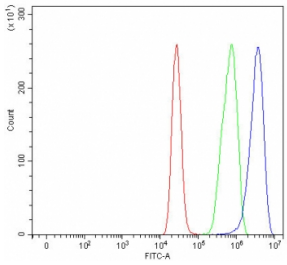
IHC staining of FFPE human non-small cell lung cancer tissue with Acetyl-CoA acetyltransferase antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human liver cancer tissue with Acetyl-CoA acetyltransferase antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human HepG2, 2) human PC-3, 3) human A549, 4) human MCF7, 5) rat heart, 6) rat skeletal muscle and 7) mouse heart tissue lysate with Acetyl-CoA acetyltransferase antibody. Predicted molecular weight ~45 kDa.



Flow cytometry testing of fixed and permeabilized human MCF7 cells with Acetyl-CoA acetyltransferase antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Acetyl-CoA acetyltransferase antibody.

Description

Acetyl-CoA acetyltransferase, mitochondrial, also known as acetoacetyl-CoA thiolase, is an enzyme that in humans is encoded by the ACAT1 (Acetyl-Coenzyme A acetyltransferase 1) gene. This gene encodes a mitochondrially localized enzyme that catalyzes the reversible formation of acetoacetyl-CoA from two molecules of acetyl-CoA. Defects in this gene are associated with 3-ketothiolase deficiency, an inborn error of isoleucine catabolism characterized by urinary excretion of 2-methyl-3-hydroxybutyric acid, 2-methylacetoacetic acid, tiglylglycine, and butanone.

Application Notes

Optimal dilution of the Acetyl-CoA acetyltransferase antibody should be determined by the researcher.

Immunogen

An E.coli-derived human recombinant protein (S10-Q404) was used as the immunogen for the Acetyl-CoA acetyltransferase antibody.

Storage

After reconstitution, the Acetyl-CoA acetyltransferase 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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