

Product datasheet

Anti-ACAT1 antibody - C-terminal ab71407

[2 References](#) [2 Images](#)

Overview

Product name	Anti-ACAT1 antibody - C-terminal
Description	Rabbit polyclonal to ACAT1 - C-terminal
Tested applications	Suitable for: IHC-P, ELISA, WB, ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide from the C-terminal region of human ACAT1 conjugated to KLH
Positive control	SK-BR-3 cell line lysate.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.09% Sodium Azide Constituents: PBS
Purity	Ammonium Sulphate Precipitation
Purification notes	ab71407 was prepared by Saturated Ammonium Sulfate precipitation followed by dialysis against PBS.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab71407** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/10 - 1/50.
ELISA		1/1000.

Application	Abreviews	Notes
WB		1/50 - 1/100. Detects a band of approximately 45 kDa (predicted molecular weight: 45 kDa).
ICC/IF		Use at an assay dependent concentration. PubMed: 24658146

Target

Function

Plays a major role in ketone body metabolism.

Involvement in disease

Defects in ACAT1 are a cause of 3-ketothiolase deficiency (3KTD) [MIM:203750]; also known as alpha-methylacetoaceticaciduria. 3KTD is an inborn error of isoleucine catabolism characterized by intermittent ketoacidotic attacks associated with unconsciousness. Some patients die during an attack or are mentally retarded. Urinary excretion of 2-methyl-3-hydroxybutyric acid, 2-methylacetoacetic acid, triglylglycine, butanone is increased. It seems likely that the severity of this disease correlates better with the environmental or acquired factors than with the ACAT1 genotype.

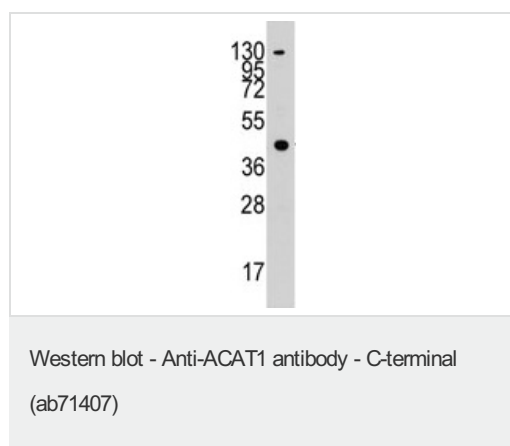
Sequence similarities

Belongs to the thiolase family.

Cellular localization

Mitochondrion.

Images

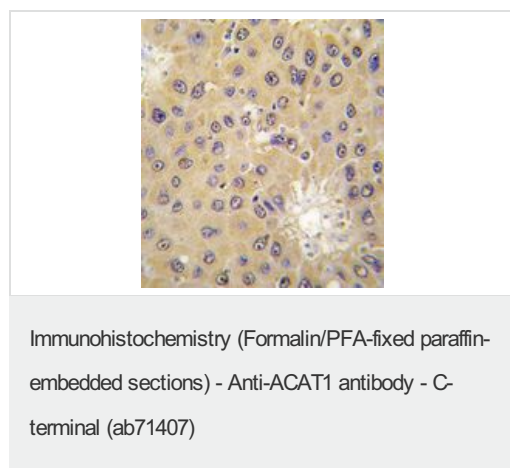


Anti-ACAT1 antibody - C-terminal (ab71407) at 1/60 dilution + SK-BR-3 cell line lysate at 35 µg

Predicted band size : 45 kDa

Observed band size : 45 kDa

Additional bands at : 130 kDa. We are unsure as to the identity of these extra bands.



ab71407 at 1/50 dilution staining ACAT1 - C-terminal in human hepatocarcinoma tissue section by Immunohistochemistry (Formalin/PFA fixed paraffin-embedded sections). A peroxidase conjugated secondary antibody was used followed by DAB staining.

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