

Datasheet for ABIN7596086  
**anti-ACAT1 antibody (AA 34-427)**



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## Overview

|                      |                                                                                  |
|----------------------|----------------------------------------------------------------------------------|
| Quantity:            | 100 µL                                                                           |
| Target:              | ACAT1                                                                            |
| Binding Specificity: | AA 34-427                                                                        |
| Reactivity:          | Human                                                                            |
| Host:                | Mouse                                                                            |
| Clonality:           | Monoclonal                                                                       |
| Application:         | Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC) |

## Product Details

|               |                                                          |
|---------------|----------------------------------------------------------|
| Purpose:      | Human ACAT1 antibody                                     |
| Immunogen:    | Recombinant human ACAT1 (34-427aa) purified from E. coli |
| Clone:        | 2C5                                                      |
| Isotype:      | IgG1 kappa                                               |
| Purification: | protein-A affinity chromatography                        |

## Target Details

|                   |                                                                                                                                                                              |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | ACAT1                                                                                                                                                                        |
| Alternative Name: | ACAT1 ( <a href="#">ACAT1 Products</a> )                                                                                                                                     |
| Background:       | ACAT1 (acetyl-Coenzyme A acetyltransferase 1) is a 417 amino acid protein. ACAT1 is a mitochondrial enzyme involved in the formation and degradation of ketone bodies and is |

## Target Details

necessary for the proper metabolic processing of isoleucine. ACAT1 and ACAT2 catalyze the formation of acetoacetyl-CoA from two acetyl-CoA molecules. These enzymes are also capable of the reverse reaction. Defects in ACAT1 are a cause of 3-ketothiolase deficiency. 3-ketothiolase deficiency 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.

NCBI Accession: [NP\\_000010](#)

## Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

## Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.