

## Human Acetyl Coenzyme A Acetyltransferase 1 (ACAT1) ELISA Kit | ACAT1 elisa kit

Human Acetyl Coenzyme A Acetyltransferase 1 (ACAT1) ELISA Kit

CATALOG #  
**AAA68460**

REACTIVITY  
**Human**

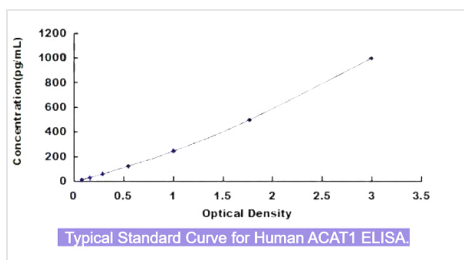
### PRODUCT SYNONYMS

Acetyl Coenzyme A Acetyltransferase 1 (ACAT1); Human Acetyl Coenzyme A Acetyltransferase 1 (ACAT1) ELISA Kit; THIL; ACAT; T2; MAT; Acetoacetyl Coenzyme A Thiolase; ACAT1 elisa kit

### PRODUCT SPECIFICATIONS

|                       |                                                                                                                                                                                                           |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity            | Human                                                                                                                                                                                                     |
| Specificity           | This assay has high sensitivity and excellent specificity for detection of ACAT1. No significant cross-reactivity or interference between ACAT1 and analogues was observed.                               |
| Sequence Length       | 427                                                                                                                                                                                                       |
| Assay Type            | Quantitative Sandwich                                                                                                                                                                                     |
| Samples               | Human tissue homogenates, cell lysates or other biological fluids                                                                                                                                         |
| Detection Range       | 15.6-1000pg/mL                                                                                                                                                                                            |
| Sensitivity           | < 4.75pg/mL                                                                                                                                                                                               |
| Intra-assay Precision | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level ACAT1 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%                                   |
| Inter-assay Precision | Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level ACAT1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12% |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for ACAT1 elisa kit | <p>Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to ACAT1. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to ACAT1. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain ACAT1, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of ACAT1 in the samples is then determined by comparing the O.D. of the samples to the standard curve.</p> <p>Intended Uses: The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of ACAT1 in human tissue homogenates, cell lysates or other biological fluids.</p> |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                             |
|----------------------------------|---------------------------------------------|
| NCBI GI #                        | 4557237                                     |
| NCBI GeneID                      | 38                                          |
| NCBI Accession #                 | NP_000010.1                                 |
| NCBI GenBank Nucleotide #        | NM_000019.3                                 |
| UniProt Accession #              | P24752; Q96FG8; B2R6H1; G3XAB4              |
| Molecular Weight                 | 17,175 Da                                   |
| NCBI Official Full Name          | acetyl-CoA acetyltransferase, mitochondrial |
| NCBI Official Synonym Full Names | acetyl-CoA acetyltransferase 1              |
| NCBI Official Symbol             | ACAT1                                       |
| NCBI Official Synonym Symbols    | T2; MAT; ACAT; THIL                         |
| NCBI Protein Information         | acetyl-CoA acetyltransferase, mitochondrial |
| UniProt Protein Name             | Acetyl-CoA acetyltransferase, mitochondrial |
| UniProt Gene Name                | ACAT1                                       |
| UniProt Synonym Gene Names       | ACAT; MAT                                   |

**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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/acetyl-coenzyme-a-acetyltransferase-1-acat1/68460>