

Datasheet for ABIN2785628

**anti-ACAT1 antibody (Middle Region)**[Go to Product page](#)**1** Image

## Overview

|                      |                                                                                                              |
|----------------------|--------------------------------------------------------------------------------------------------------------|
| Quantity:            | 100 µL                                                                                                       |
| Target:              | ACAT1                                                                                                        |
| Binding Specificity: | Middle Region                                                                                                |
| Reactivity:          | Human, Mouse, Rat, Dog, Cow, Rabbit, Horse, Guinea Pig, Zebrafish (Danio rerio),<br>Saccharomyces cerevisiae |
| Host:                | Rabbit                                                                                                       |
| Clonality:           | Polyclonal                                                                                                   |
| Conjugate:           | This ACAT1 antibody is un-conjugated                                                                         |
| Application:         | Western Blotting (WB), Immunohistochemistry (IHC)                                                            |

## Product Details

|                       |                                                                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen:            | The immunogen is a synthetic peptide directed towards the middle region of human ACAT1                                                 |
| Sequence:             | GHQDVMVAGG MESMSNPYV MNRGSTPYGG VKLEDLIVKD GLTDVYNKIH                                                                                  |
| Predicted Reactivity: | Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit:<br>100%, Rat: 100%, Yeast: 92%, Zebrafish: 100% |
| Characteristics:      | This is a rabbit polyclonal antibody against ACAT1. It was validated on Western Blot using a cell<br>lysate as a positive control.     |
| Purification:         | Affinity Purified                                                                                                                      |

## Target Details

|         |       |
|---------|-------|
| Target: | ACAT1 |
|---------|-------|

## Target Details

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| Alternative Name: | ACAT1 ( <a href="#">ACAT1 Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Background:       | <p>ACAT1 is a mitochondrially localized enzyme that catalyzes the reversible formation of acetoacetyl-CoA from two molecules of acetyl-CoA. The gene encoding ACAT1 spans approximately 27 kb and contains 12 exons interrupted by 11 introns. Defects in this gene are associated with the alpha-methylacetoaceticaciduria disorder, an inborn error of isoleucine catabolism characterized by urinary excretion of 2-methyl-3-hydroxybutyric acid, 2-methylacetoacetic acid, tiglylglycine, and butanone.</p> <p>Alias Symbols: ACAT, MAT, T2, THIL</p> <p>Protein Interaction Partner: SUMO2, MDM2, ACAT1, VCAM1, ITGA4, AGXT, FLOT1, UBAP2L, TTF2, UBL4A, UQCRFS1P1, UQCRB, SSBP1, SDHB, SDHA, SAFB, MARS, FOXM1, CSE1L, ACO2, TMEM65, TUBB1, TOMM7, TOPBP1, GCN1L1, TIMM44, ACAA2, FBXO6, PEX7, COPS5, CUL1, CUL3, SIRT7, SUMO1, RAD21, UBC, HDAC5,</p> <p>Protein Size: 427</p> |
| Molecular Weight: | 41 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Gene ID:          | 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| NCBI Accession:   | <a href="#">NM_000019</a> , <a href="#">NP_000010</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| UniProt:          | <a href="#">P24752</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## Application Details

|                    |                                                                                    |
|--------------------|------------------------------------------------------------------------------------|
| Application Notes: | Optimal working dilutions should be determined experimentally by the investigator. |
| Comment:           | Antigen size: 427 AA                                                               |
| Restrictions:      | For Research Use only                                                              |

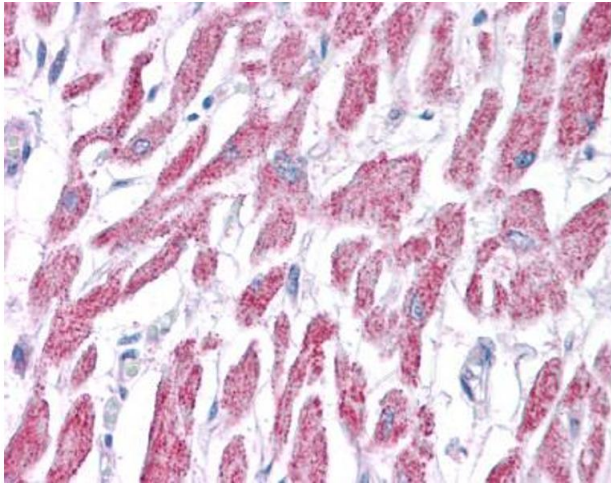
## Handling

|                    |                                                                                                                        |
|--------------------|------------------------------------------------------------------------------------------------------------------------|
| Format:            | Liquid                                                                                                                 |
| Concentration:     | Lot specific                                                                                                           |
| Buffer:            | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.                    |
| Preservative:      | Sodium azide                                                                                                           |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |

## Handling

|                  |                                                                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Handling Advice: | Avoid repeated freeze-thaw cycles.                                                                                                      |
| Storage:         | -20 °C                                                                                                                                  |
| Storage Comment: | For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles. |

## Images



### Immunohistochemistry

Image 1.