

## Mouse ACAT2 Monoclonal Antibody | anti-ACAT2 antibody

ACAT2 antibody

|                              |                      |                                                                                                   |
|------------------------------|----------------------|---------------------------------------------------------------------------------------------------|
| CATALOG #<br><b>AAA74811</b> | HOST<br><b>Mouse</b> | APPLICATIONS<br><b>Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay</b> |
|------------------------------|----------------------|---------------------------------------------------------------------------------------------------|

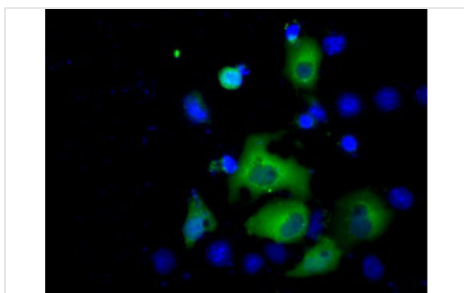
### PRODUCT SYNONYMS

ACAT2; Monoclonal Antibody; ACAT2 antibody; Monoclonal ACAT2; Anti-ACAT2; Acetyl-Coenzyme A Acetyltransferase 2; ACAT 2; ACAT-2; anti-ACAT2 antibody

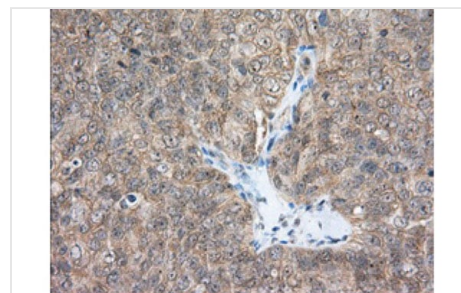
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                                                                                                                                                                                                                                                                                                                                                 |
| Clonality                                       | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                            |
| Isotype                                         | IgG2b                                                                                                                                                                                                                                                                                                                                                                                                 |
| Clone Number                                    | 3A11                                                                                                                                                                                                                                                                                                                                                                                                  |
| Purity/Purification                             | ACAT2 antibody was purified by affinity chromatography.                                                                                                                                                                                                                                                                                                                                               |
| Form/Format                                     | Supplied in PBS buffer, pH 7.3, containing 1% BSA, 50% glycerol and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                               |
| Concentration                                   | 500 ug-1 mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                                                                        |
| Sequence Length                                 | 397                                                                                                                                                                                                                                                                                                                                                                                                   |
| Applicable Applications for anti-ACAT2 antibody | IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)                                                                                                                                                                                                                                                                                                                        |
| Biological Significance                         | Acetyl-Coenzyme A acetyltransferase 2 is an enzyme involved in lipid metabolism. Reported patients with ACAT2 deficiency have shown severe mental retardation and hypotonus. The ACAT2 gene shows complementary overlapping with the 3-prime region of the TCP1 gene in both mouse and human. These genes are encoded on opposite strands of DNA, as well as in opposite transcriptional orientation. |
| Cross-Reactivity                                | Human                                                                                                                                                                                                                                                                                                                                                                                                 |
| Immunogen                                       | ACAT2 antibody was raised in mouse using a full length recombinant protein of human ACAT2 (NP_005882) produced in HEK293T cells, as the immunogen.                                                                                                                                                                                                                                                    |
| Preparation and Storage                         | Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.                                                                                                                                                                                                                                                               |

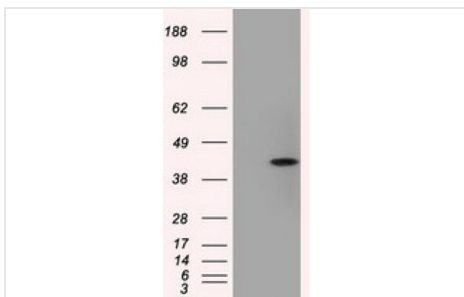
### IMAGES


**IF (Immunofluorescence)**

Immunofluorescent staining of COS7 cells transiently transfected with recombinant ACAT2 protein using ACAT2 antibody


**IHC (Immunohistochemistry)**

Immunohistochemical analysis of ACAT2 protein in paraffin embedded Adenocarcinoma of Human ovary tissue using ACAT2 antibody



#### WB (Western Blot)

Western Blot analysis of HEK293T cell lysates (5 ug) transfected with either recombinant ACAT2 protein (Right) or empty vector (Left) detected with ACAT2 antibody

## ADDITIONAL INFORMATION

|                                                     |                                                                                    |
|-----------------------------------------------------|------------------------------------------------------------------------------------|
| Related Product Information for anti-ACAT2 antibody | Mouse monoclonal ACAT2 antibody                                                    |
| Product Categories/Family for anti-ACAT2 antibody   | <a href="#">Proteases</a> ; <a href="#">Inhibitors</a> ; & <a href="#">Enzymes</a> |

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                     |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | <a href="#">148539872</a>                                                                                                                           |
| NCBI GeneID                      | <a href="#">39</a>                                                                                                                                  |
| NCBI Accession #                 | <a href="#">NP_005882</a>                                                                                                                           |
| NCBI GenBank Nucleotide #        | <a href="#">NM_005891.2</a>                                                                                                                         |
| UniProt Accession #              | <a href="#">Q9BWD1</a> ; <a href="#">Q16146</a> ; <a href="#">Q5TCL7</a> ; <a href="#">Q8TDM4</a> ; <a href="#">B7Z233</a> ; <a href="#">E1P5B1</a> |
| Molecular Weight                 | 44,643 Da                                                                                                                                           |
| NCBI Official Full Name          | acetyl-CoA acetyltransferase, cytosolic isoform 1                                                                                                   |
| NCBI Official Synonym Full Names | acetyl-CoA acetyltransferase 2                                                                                                                      |
| NCBI Official Symbol             | ACAT2                                                                                                                                               |
| NCBI Protein Information         | acetyl-CoA acetyltransferase, cytosolic                                                                                                             |
| UniProt Protein Name             | Acetyl-CoA acetyltransferase, cytosolic                                                                                                             |
| UniProt Gene Name                | <b>ACAT2</b>                                                                                                                                        |
| UniProt Synonym Gene Names       | ACTL                                                                                                                                                |
| UniProt Entry Name               | THIC_HUMAN                                                                                                                                          |

**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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/acet2-antibody-clone-3a11-immunohistochemistry-immunofluorescence-flow-cytometry-elisa/74811>