

Datasheet for ABIN2778159  
**anti-ACADL antibody (Middle Region)**[Go to Product page](#)[1 Image](#)[1 Publication](#)

## Overview

|                      |   |
|----------------------|---|
| Quantity:            | 100 µL  |
| Target:              | ACADL   |
| Binding Specificity: | Middle Region   |
| Reactivity:          | Human, Mouse, Rat, Horse, Pig, Rabbit, Cow, Zebrafish (Danio rerio), Guinea Pig |
| Host:                | Rabbit  |
| Clonality:           | Polyclonal  |
| Conjugate:           | This ACADL antibody is un-conjugated  |
| Application:         | Western Blotting (WB)   |

## Product Details

|                       |   |
|-----------------------|---|
| Immunogen:            | The immunogen is a synthetic peptide directed towards the middle region of human ACADL  |
| Sequence:             | LPQERLLIAD VAISASEFMF EETRNYVKQR KAFGKTV AHL QTVQHKLAEL   |
| Predicted Reactivity: | Cow: 92%, Guinea Pig: 92%, Horse: 100%, Human: 100%, Mouse: 100%, Pig: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 77%            |
| Characteristics:      | This is a rabbit polyclonal antibody against ACADL. It was validated on Western Blot using a cell lysate as a positive control. |
| Purification:         | Affinity Purified   |

## Target Details

|         |       |
|---------|-------|
| Target: | ACADL |
|---------|-------|

## Target Details

|                   |  |
|-------------------|--|
| Alternative Name: | ACADL ( <a href="#">ACADL Products</a> )   |
| Background:       | <p>ACADL belongs to the acyl-CoA dehydrogenase family, which is a family of mitochondrial flavoenzymes involved in fatty acid and branched chain amino-acid metabolism. This protein is one of the four enzymes that catalyze the initial step of mitochondrial beta-oxidation of straight-chain fatty acid. Defects in this gene are the cause of long-chain acyl-CoA dehydrogenase (LCAD) deficiency, leading to nonketotic hypoglycemia. The protein encoded by this gene belongs to the acyl-CoA dehydrogenase family, which is a family of mitochondrial flavoenzymes involved in fatty acid and branched chain amino-acid metabolism. This protein is one of the four enzymes that catalyze the initial step of mitochondrial beta-oxidation of straight-chain fatty acid. Defects in this gene are the cause of long-chain acyl-CoA dehydrogenase (LCAD) deficiency, leading to nonketotic hypoglycemia.</p> <p>Alias Symbols: ACAD4, LCAD</p> <p>Protein Interaction Partner: Htt, UBC,</p> <p>Protein Size: 430</p> |
| Molecular Weight: | 44 kDa   |
| Gene ID:          | 33   |
| NCBI Accession:   | <a href="#">NM_001608</a> , <a href="#">NP_001599</a>  |
| UniProt:          | <a href="#">P28330</a>   |
| Pathways:         | <a href="#">Monocarboxylic Acid Catabolic Process</a>  |

## Application Details

|                    |  |
|--------------------|--|
| Application Notes: | Optimal working dilutions should be determined experimentally by the investigator. |
| Comment:           | Antigen size: 430 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  |

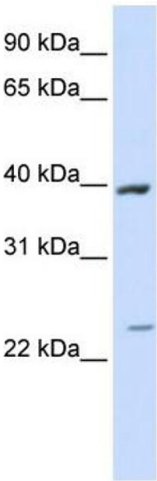
## Handling

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

## Publications

|                   |  |
|-------------------|--|
| Product cited in: | Mells, Fu, Sharma, Olson, Cheng, Handy, Saxena, Sorescu, Anania: "Glp-1 analog, liraglutide, ameliorates hepatic steatosis and cardiac hypertrophy in C57BL/6J mice fed a Western diet." in: <b>American journal of physiology. Gastrointestinal and liver physiology</b> , Vol. 302, Issue 2, pp. G225-35, (2012) ( <a href="#">PubMed</a> ). |
|-------------------|--|

## Images



**Western Blotting**

**Image 1.** WB Suggested Anti-ACADL Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:312500 Positive Control: Human Placenta