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KO Validated Anti-ACADM Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI2412

Specification

KO Validated Anti-ACADM Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC**
Primary Accession	P11310
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 47 kDa, observed, 42 kDa KDa**
Gene Name	**ACADM**
Aliases	**ACADM; Acyl-CoA Dehydrogenase Medium Chain; MCADH; MCAD; ACAD1; Medium-Chain Specific Acyl-CoA Dehydrogenase, Mitochondrial; Acyl-Coenzyme A Dehydrogenase, C-4 To C-12 Straight Chain; Medium-Chain Acyl-CoA Dehydrogenase; Acyl-CoA Dehydrogenase, C-4 To C-12 Straight Chain; Medium Chain Acyl-CoA Dehydrogenase; Testicular Tissue Protein Li 7; EC 1.3.99.3; EC 1.3.8.7; EC 1.3.99**
Immunogen	**A synthesized peptide derived from human ACADM**

KO Validated Anti-ACADM Rabbit Monoclonal Antibody - Additional Information

Gene ID	**34**

Other Names
Medium-chain specific acyl-CoA dehydrogenase, mitochondrial, MCAD, 1.3.8.7, Medium chain acyl-CoA dehydrogenase, MCADH, ACADM (HGNC:89)

KO Validated Anti-ACADM Rabbit Monoclonal Antibody - Protein Information

Name ACADM (HGNC:89)

Function
Medium-chain specific acyl-CoA dehydrogenase is one of the acyl-CoA dehydrogenases that catalyze the first step of mitochondrial fatty acid beta-oxidation, an aerobic process breaking down fatty acids into acetyl-CoA and allowing the production of energy from fats (PubMed:1970566, PubMed:21237683, PubMed:2251268, PubMed:8823175). The first step of

fatty acid beta-oxidation consists in the removal of one hydrogen from C-2 and C-3 of the straight-chain fatty acyl-CoA thioester, resulting in the formation of trans-2-enoyl-CoA (PubMed:2251268). Electron transfer flavoprotein (ETF) is the electron acceptor that transfers electrons to the main mitochondrial respiratory chain via ETF-ubiquinone oxidoreductase (ETF dehydrogenase) (PubMed:15159392, PubMed:25416781). Among the different mitochondrial acyl-CoA dehydrogenases, medium-chain specific acyl-CoA dehydrogenase acts specifically on acyl-CoAs with saturated 6 to 12 carbons long primary chains (PubMed:1970566, PubMed:21237683, PubMed:2251268, PubMed:8823175).

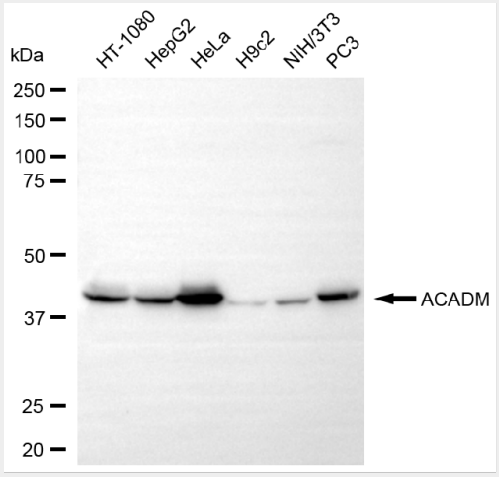
Cellular Location
Mitochondrion matrix

KO Validated Anti-ACADM Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KO Validated Anti-ACADM Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-ACADM antibody (Cat#AGI2412). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-ACADM antibody (Cat#AGI2412, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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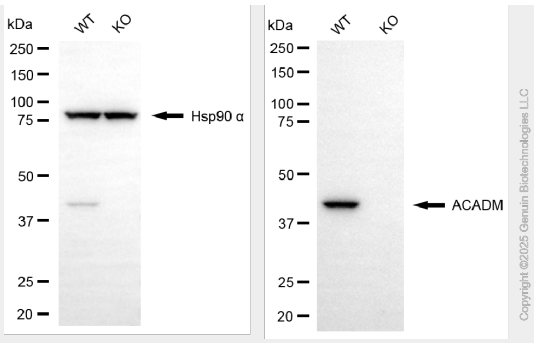
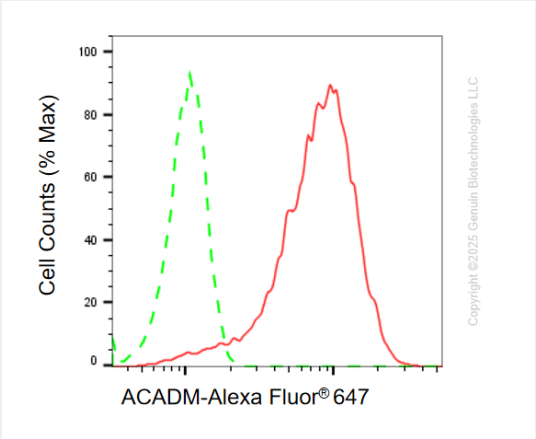


Western blotting analysis using anti-ACADM antibody (Cat#AGI2412). ACADM expression in wild type (WT) and ACADM knockout (KO) 293T cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-ACADM antibody (Cat#AGI2412, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of ACADM expression in HepG2 cells using anti-ACADM antibody (Cat# AGI2412, 1:2,000). Green, isotype control; red, ACADM.