

Product datasheet for **AP17073PU-N**

ACADM Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	FC, IF, IHC, WB
Recommended Dilution:	ELISA: 1/1000. Western blot: 1/50-1/100. Flow Cytometry: 1/10-1/50. Immunofluorescence: 1/10-1/50. Immunohistochemistry on Paraffin Sections: 1/50-1/100.
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 196~225 amino acids from the Center region of Human ACADM.
Specificity:	This antibody detects ACADM at Center.
Formulation:	PBS with 0.09% (W/V) Sodium Azide as preservative State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	46588 Da
Gene Name:	acyl-CoA dehydrogenase, C-4 to C-12 straight chain
Database Link:	Entrez Gene 11364 Mouse Entrez Gene 34 Human P11310



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Background:

ACADM protein is a medium chain specific (C4 to C12 straight chain) acyl Coenzyme A dehydrogenase. The enzyme catalyzes the initial step of the mitochondrial fatty acid beta oxidation pathway. ACADM expression is induced during periods of fasting, when reliance on fatty acids for energy is increased. Clinical phenotypes are associated with ACADM hereditary deficiency.

Synonyms:

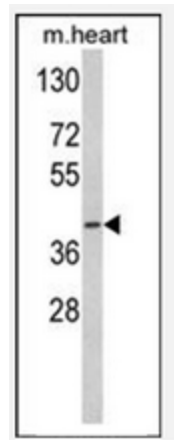
MCAD

Protein Families:

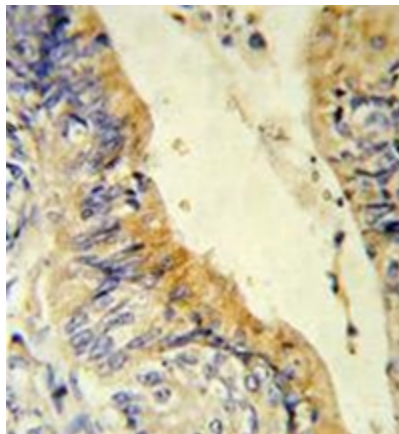
Druggable Genome

Protein Pathways:

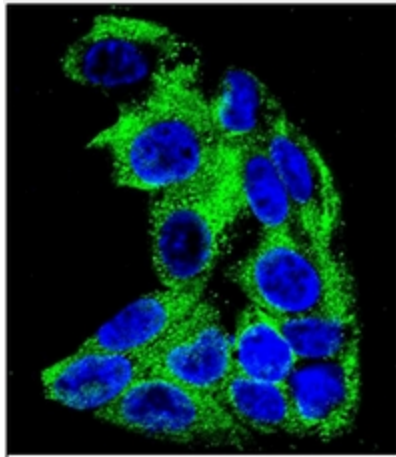
beta-Alanine metabolism, Fatty acid metabolism, Metabolic pathways, PPAR signaling pathway, Propanoate metabolism, Valine, leucine and isoleucine degradation

Product images:


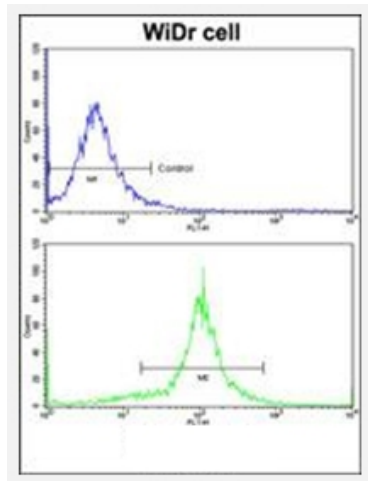
Western blot analysis of ACADM Antibody (Center) in mouse heart tissue lysates (35 ug/lane). ACADM (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human colon carcinoma reacted with ACADM Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated



Confocal immunofluorescent analysis of ACADM Antibody (Center) with HepG2 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



Flow cytometric analysis of widr cells using ACADM Antibody (Center) (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.