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Anti-ACAA1 Antibody

Catalog # AP95641

Product Information

Application	WB, IHC, FC
Primary Accession	P09110
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Calculated MW	44292

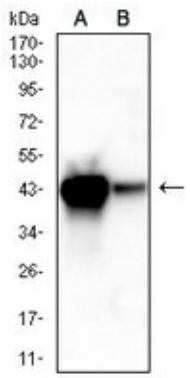
Additional Information

Gene ID	30
Other Names	ACAA; PTHIO; 3-ketoacyl-CoA thiolase, peroxisomal; Acetyl-CoA acyltransferase; Beta-ketothiolase; Peroxisomal 3-oxoacyl-CoA thiolase
Target/Specificity	Recombinant fusion protein of human ACAA1 expressed in E. Coli
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~FC (1/100 - 1/200)
Format	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

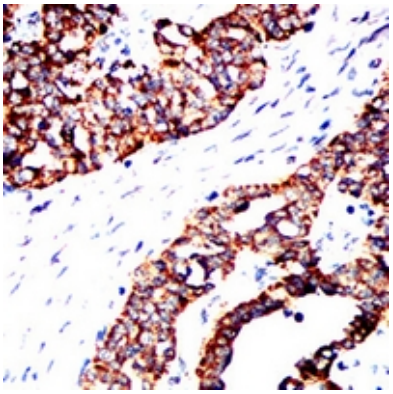
Protein Information

Name	ACAA1 (HGNC:82)
Synonyms	ACAA, PTHIO
Function	Responsible for the thiolytic cleavage of straight chain 3- keto fatty acyl-CoAs (3-oxoacyl-CoAs) (PubMed:11734571, PubMed:2882519). Plays an important role in fatty acid peroxisomal beta-oxidation (PubMed:11734571, PubMed:2882519). Catalyzes the cleavage of medium, long, and very long straight chain 3-oxoacyl-CoAs (PubMed:11734571, PubMed:2882519). May play a role in peroxisomal beta- oxidation step in polyunsaturated fatty acids (PUFAs) biosynthesis. Possibly regulates systemic levels of docosahexaenoic acid (DHA, C22:6n-3) through a process involving endoplasmic reticulum desaturation and elongation of alpha-linolenic acid (ALA, C18:3n-3) to form tetracosahexaenoic acid (THA, C24:6n-3), which is then beta- oxidized to DHA in peroxisomes.
Cellular Location	Peroxisome. Note=Transported into peroxisomes following association with PEX7.

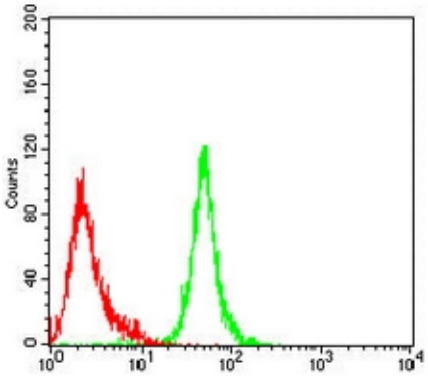
Images



Western blot analysis of ACAA1 expression in mouse liver (A), mouse kidney (B) whole cell lysates. (Predicted band size: 44 kD; Observed band size: 43 kD)



Immunohistochemical analysis of ACAA1 staining in human ovarian cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Flow cytometric analysis of HL60 cells using Anti-ACAA1 Antibody (green) and negative control (red).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.