

Summary

Production Name	ACOT2 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IHC
Reactivity	Human,Rat,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	ACOT2
Alternative Names	ACOT2; PTE2; PTE2A; Acyl-coenzyme A thioesterase 2; mitochondrial; Acyl-CoA thioesterase 2; Acyl-coenzyme A thioester hydrolase 2a; CTE-1a; Long-chain acyl-CoA thioesterase 2; ZAP128
Gene ID	10965.0
SwissProt ID	P49753.The antiserum was produced against synthesized peptide derived from human ACOT2. AA range:171-220

Application

Dilution Ratio	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000. Not yet tested in other applications.
-----------------------	---

Molecular Weight 53kD

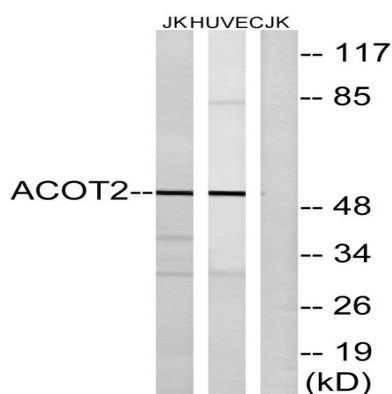
Background

This gene encodes a member of the acyl-CoA thioesterase protein family, and is one of four acyl-CoA hydrolase genes located in a cluster on chromosome 14. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2012],catalytic activity:Palmitoyl-CoA + H(2)O = CoA + palmitate.,caution:Was originally (PubMed:10944470) thought to be peroxisomal but was later shown (PubMed:16940157) to be mitochondrial.,function:Acyl-CoA thioesterases are a group of enzymes that catalyze the hydrolysis of acyl-CoAs to the free fatty acid and coenzyme A (CoASH), providing the potential to regulate intracellular levels of acyl-CoAs, free fatty acids and CoASH. Displays high levels of activity on medium- and long chain acyl CoAs.,similarity:Belongs to the C/M/P thioester hydrolase family.,tissue specificity:Strongest expression in heart, liver, muscle and kidney. Weak in placenta and pancreas.,

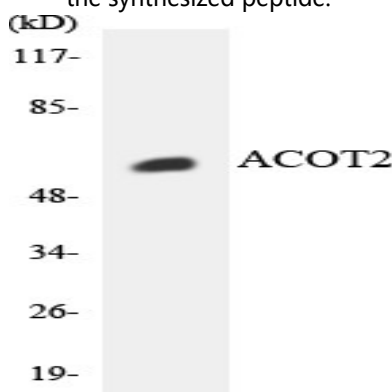
Research Area

Biosynthesis of unsaturated fatty acids;

Image Data

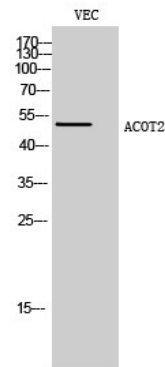


Western blot analysis of lysates from Jurkat and HUVEC cells, using ACOT2 Antibody. The lane on the right is blocked with the synthesized peptide.

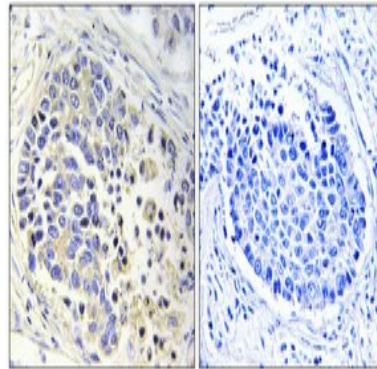


Western blot analysis of the lysates from HepG2 cells using ACOT2 antibody.

Product Name: ACOT2 Rabbit Polyclonal Antibody
Catalog #: APRab06515



Western Blot analysis of VEC cells using ACOT2 Polyclonal Antibody diluted at 1: 500



Immunohistochemical analysis of paraffin-embedded Human lung cancer. Antibody was diluted at 1:100 (4°, overnight) . High-pressure and temperature Tris-EDTA, pH 8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.

Note

For research use only.