

ACOT2 Polyclonal Antibody

Catalog No :	YT0087
Reactivity :	Human;Rat;Mouse;
Applications :	WB;IHC;IF;ELISA
Target :	ACOT2
Fields :	>>Fatty acid elongation;>>Biosynthesis of unsaturated fatty acids;>>Metabolic pathways;>>Ovarian steroidogenesis
Gene Name :	ACOT2
Protein Name :	Acyl-coenzyme A thioesterase 2 mitochondrial
Human Gene Id :	10965
Human Swiss Prot No :	P49753
Mouse Swiss Prot No :	Q9QYR9
Immunogen :	The antiserum was produced against synthesized peptide derived from human ACOT2. AA range:171-220
Specificity :	ACOT2 Polyclonal Antibody detects endogenous levels of ACOT2 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:40000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 53kD

Cell Pathway : Biosynthesis of unsaturated fatty acids;

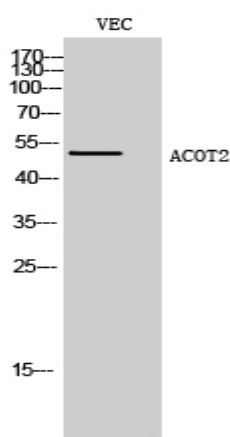
Background : This gene encodes a member of the acyl-CoA thioesterase protein family, and is one of four acyl-CoA hydrolase genes located in a cluster on chromosome 14. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2012],

Function : 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.,

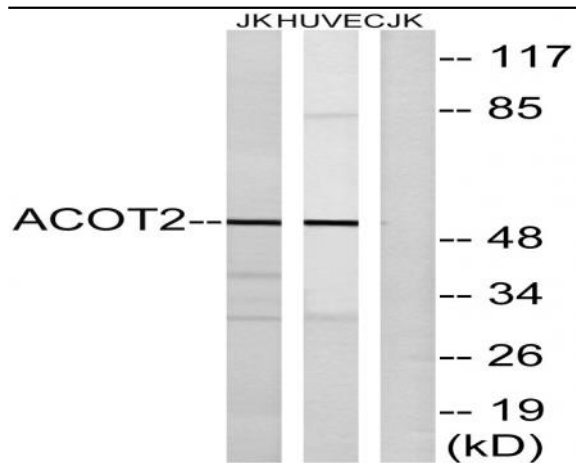
Subcellular Location : Mitochondrion .

Expression : Strongest expression in heart, liver, muscle and kidney. Weak in placenta and pancreas.

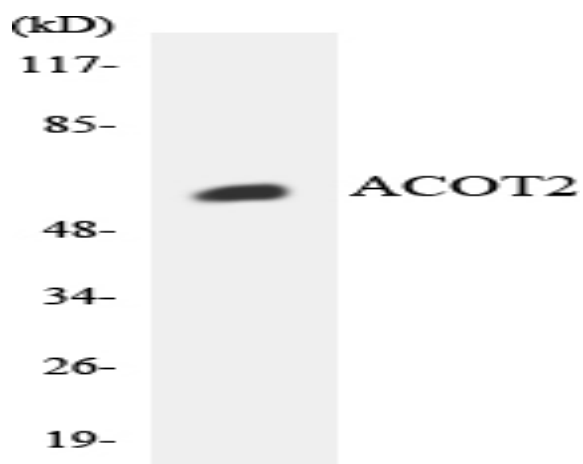
Products Images



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



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.