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ACOT2 Polyclonal Antibody

Catalog # AP68270

Product Information

Application	WB, IHC-P, IF, ICC, E
Primary Accession	P49753
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	53218

Additional Information

Gene ID	10965
Other Names	ACOT2; PTE2; PTE2A; Acyl-coenzyme A thioesterase 2; mitochondrial; Acyl-CoA thioesterase 2; Acyl-coenzyme A thioester hydrolase 2a; CTE-Ia; Long-chain acyl-CoA thioesterase 2; ZAP128
Dilution	WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/40000. Not yet tested in other applications. IHC-P~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/40000. Not yet tested in other applications. IF~~1:50~200 ICC~~N/A E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

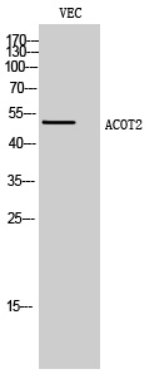
Protein Information

Name	ACOT2
Synonyms	PTE2, PTE2A
Function	Catalyzes the hydrolysis of acyl-CoAs into free fatty acids and coenzyme A (CoASH), regulating their respective intracellular levels (PubMed:10944470, PubMed:16940157). Displays higher activity toward long chain acyl CoAs (C14-C20) (PubMed:10944470, PubMed:16940157). The enzyme is involved in enhancing the hepatic fatty acid oxidation in mitochondria (By similarity).
Cellular Location	Mitochondrion.
Tissue Location	Strongest expression in heart, liver, muscle and kidney. Weak in placenta and pancreas.

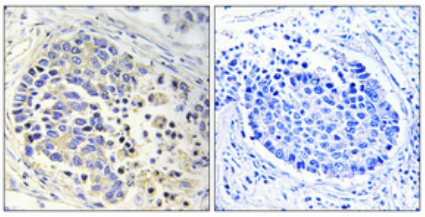
Background

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.

Images



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,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.