ACOT8 Rabbit pAb

Catalog#: A10089 | Size: 30μL/50μL/100μL

Main Information

Target	Host Species	Reactivity	Application	MW	Conjugated/Modification
ACOT8	Rabbit	Human, Mouse, Rat	WB, IHC, IF, ELISA	36kD (Observed)	Unmodified

Detailed Information

Recommeded Dilution Ratio	WB 1:500-1:2000; IHC 1:100-1:300; IF 1:200-1:1000; ELISA 1:40000; Not yet tested in other applications.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Specificity	ACOT8 Polyclonal Antibody detects endogenous levels of ACOT8 protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Storage	-15°C to -25°C/1 year(Do not lower than -25°C)
Concentration	1 mg/ml
MW(Observed)	36kD
Modification	Unmodified
Clonality	Polyclonal
Isotype	IgG

Antigen&Target Information

Immunogen	The antiserum was produced against synthesized peptide derived from human ACOT8. AA range:131-180.
Specificity	ACOT8 Polyclonal Antibody detects endogenous levels of ACOT8 protein.
Gene Name	ACOT8
Protein Name	Acyl-coenzyme A thioesterase 8
Other Name	ACOT8 ; ACTEIII ; PTE1 ; PTE2 ; Acyl-coenzyme A thioesterase 8 ; Acyl-CoA thioesterase 8 ; Choloyl-coenzyme A thioesterase ; HIV-Nef-associated acyl-CoA thioesterase ; PTE-2 ; Peroxisomal acyl-coenzyme A thioester hydrolase 1 ; PTE-1 ; Peroxisomal lon.

Database Link

Organism	Gene ID	SwissProt
Human	10005	O14734
Mouse		P58137

Background

The protein encoded by this gene is a peroxisomal thioesterase that appears to be involved more in the oxidation of fatty acids rather than in their formation. The encoded protein can bind to the human immunodeficiency virus-1 protein Nef, and mediate Nef-induced down-regulation of CD4 in T-cells. [provided by RefSeq, Oct 2010].

Function

Catalytic activity:Choloyl-CoA + H(2)O = cholate + CoA.,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. May mediate Nef-induced down-regulation of CD4. Major thioesterase in peroxisomes. Competes with BAAT (Bile acid CoA: amino acid N-acyltransferase) for bile acid-CoA substrate (such as chenodeoxycholoyl-CoA). Shows a preference for medium-length fatty acyl-CoAs (By similarity). May be involved in the metabolic regulation of peroxisome proliferation.,induction:Regulated by peroxisome proliferator (such as Clofibrate), via the peroxisome proliferator-activated receptors (PPARs).,similarity:Belongs to the C/M/P thioester hydrolase family.,subunit:Interacts with HIV-1 Nef.,tissue specificity:Detected in a T-cell line (at protein level). Ubiquitous.

Cellular Localization

Peroxisome matrix . Predominantly localized in the peroxisome but a localization to the cytosol cannot be excluded.

Tissue Expression

Detected in a T-cell line (at protein level). Ubiquitous (PubMed:9153233, PubMed:9299485).

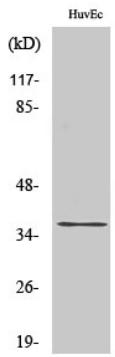
Research Areas

- Primary bile acid biosynthesis
- Metabolic pathways
- Peroxisome

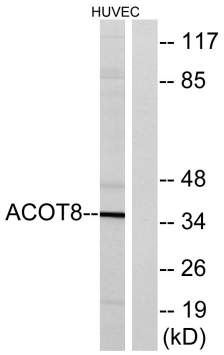
Signaling Pathway

Cellular Processes >>Transport and catabolism >>Peroxisome

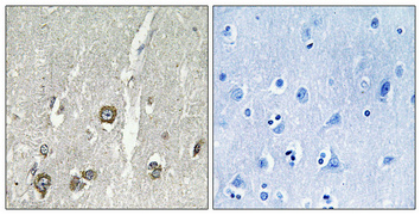
Validation Data



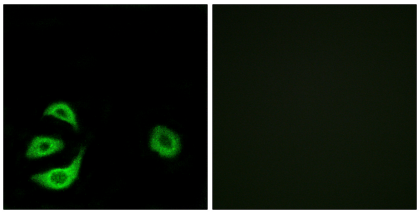
Western Blot analysis of HuvEc cells using ACOT8 Polyclonal Antibody.



Western blot analysis of lysates from HUVEC cells, using ACOT8 Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded Human brain. 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.



Immunofluorescence analysis of A549 cells, using ACOT8 Antibody. The picture on the right is blocked with the synthesized peptide.

Contact Information

+886-32876194 www.acebiolab.com Order: order@acebiolab.com Support: service@acebiolab.com
RM. 7, 13F., NO. 268, SEC. 1, GAOTIEZHANQIAN W. RD., ZHONGLI DIST., TAOYUAN CITY 320016 , TAIWAN (R.O.C.)