

Summary

Production Name	ACOT8 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IF, WB, IHC, ELISA
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	ACOT8 ACOT8; ACTEIII; PTE1; PTE2; Acyl-coenzyme A thioesterase 8; Acyl-CoA thioesterase 8;
Alternative Names	Choloyl-coenzyme A thioesterase; HIV-Nef-associated acyl-CoA thioesterase; PTE-2; Peroxisomal acyl-coenzyme A thioester hydrolase 1; PTE-1; Peroxisomal lon
Gene ID	10005.0
SwissProt ID	O14734. The antiserum was produced against synthesized peptide derived from human ACOT8. AA range:131-180

Application

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.
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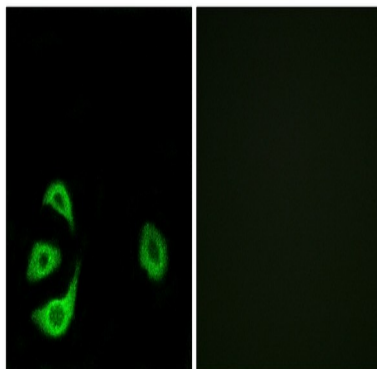
Molecular Weight 36kD

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], catalytic activity: Choloyl-CoA + H₂O = 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,

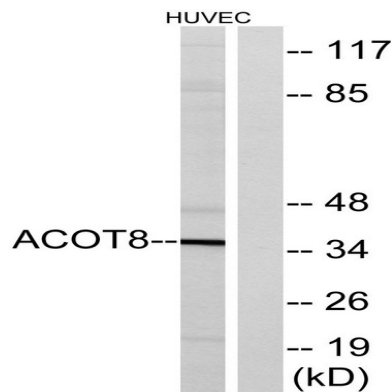
Research Area

Image Data

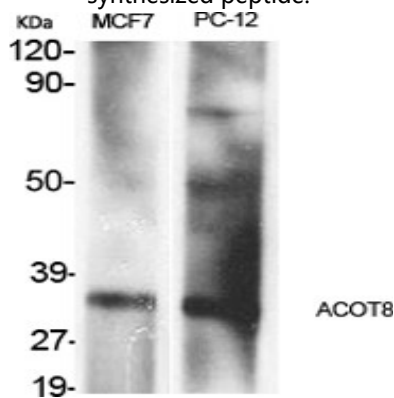


Immunofluorescence analysis of A549 cells, using ACOT8 Antibody. The picture on the right is blocked with the synthesized peptide.

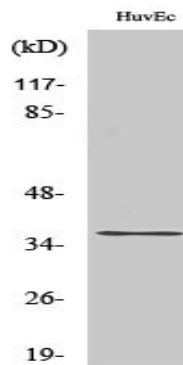
Product Name: ACOT8 Rabbit Polyclonal Antibody
Catalog #: APRab06518



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

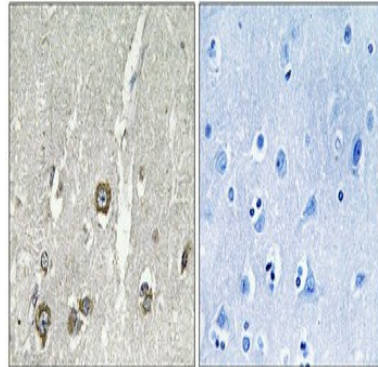


Western Blot analysis of various cells using ACOT8 Polyclonal Antibody



Western Blot analysis of HuvEc cells using ACOT8 Polyclonal Antibody

Product Name: ACOT8 Rabbit Polyclonal Antibody
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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. Negative contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.

Note

For research use only.