

Anti-ACOT8 Antibody
Rabbit polyclonal antibody to ACOT8
Catalog # AP60080

Specification

Anti-ACOT8 Antibody - Product Information

Application	WB, IF
Primary Accession	O14734
Other Accession	P58137
Reactivity	Human, Mouse, Rat, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35914

Anti-ACOT8 Antibody - Additional Information

Gene ID 10005

Other Names

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 long-chain acyl-CoA thioesterase 1; Thioesterase II; hACTE-III; hACTEIII; hTE

Target/Specificity

Recognizes endogenous levels of ACOT8 protein.

Dilution

WB~~WB (1/500 - 1/1000), IH (1/100 - 1/200), IF/IC (1/100 - 1/500)
IF~~WB (1/500 - 1/1000), IH (1/100 - 1/200), IF/IC (1/100 - 1/500)

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Anti-ACOT8 Antibody - Protein Information

Name ACOT8

Synonyms ACTEIII, PTE1 {ECO:0000303|PubMed:100925

Function

Catalyzes the hydrolysis of acyl-CoAs into free fatty acids and coenzyme A (CoASH), regulating their respective intracellular levels (PubMed:15194431, PubMed:<a href="http://www.uniprot.org/citations/9153233"

target="_blank">9153233, PubMed:9299485). Displays no strong substrate specificity with respect to the carboxylic acid moiety of Acyl-CoAs (By similarity). Hydrolyzes medium length (C2 to C20) straight-chain, saturated and unsaturated acyl-CoAs but is inactive towards substrates with longer aliphatic chains (PubMed:9153233, PubMed:9299485). Moreover, it catalyzes the hydrolysis of CoA esters of bile acids, such as choloyl-CoA and chenodeoxycholoyl-CoA and competes with bile acid CoA:amino acid N-acyltransferase (BAAT) (By similarity). Is also able to hydrolyze CoA esters of dicarboxylic acids (By similarity). It is involved in the metabolic regulation of peroxisome proliferation (PubMed:15194431).

Cellular Location

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

Tissue Location

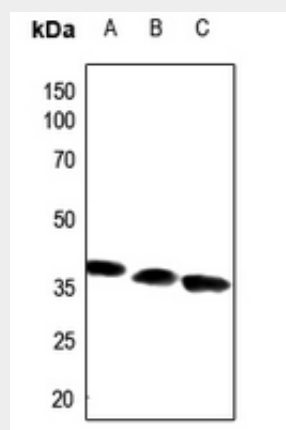
Detected in a T-cell line (at protein level). Ubiquitous (PubMed:9153233, PubMed:9299485)

Anti-ACOT8 Antibody - Protocols

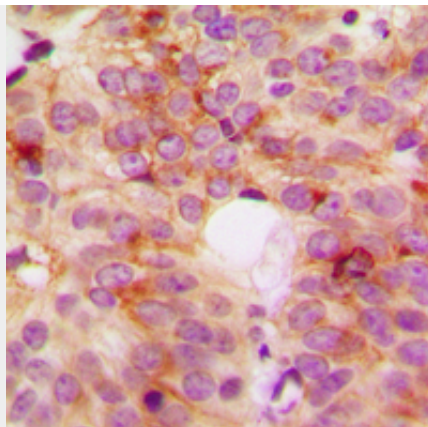
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

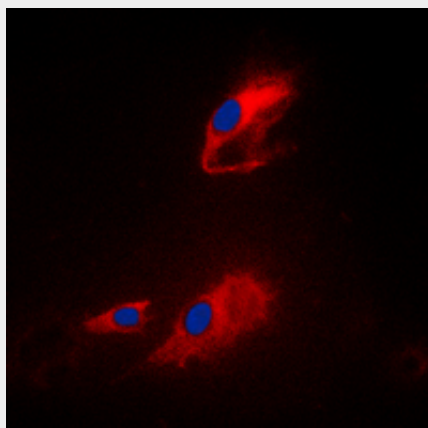
Anti-ACOT8 Antibody - Images



Western blot analysis of ACOT8 expression in HEK293T (A), H446 (B), mouse lung (C) whole cell lysates.



Immunohistochemical analysis of ACOT8 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of ACOT8 staining in Raji cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

Anti-ACOT8 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human ACOT8. The exact sequence is proprietary.