10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-ACOT8 Antibody

Catalog # AP60080

Product Information

Application	WB, IHC, IF/IC
Primary Accession	O14734
Reactivity	Human, Mouse, Rat, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35914

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	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human ACOT8. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IHC (1/100 - 1/200), IF/IC (1/100 - 1/500) IHC~~WB (1/500 - 1/1000), IHC (1/100 - 1/200), IF/IC (1/100 - 1/500) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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: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).

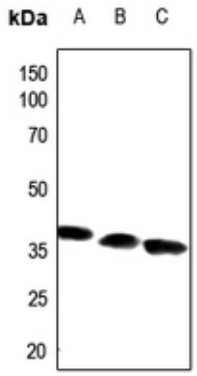
Cellular Location

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

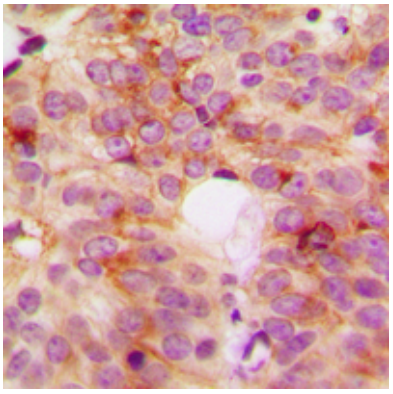
Tissue Location

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

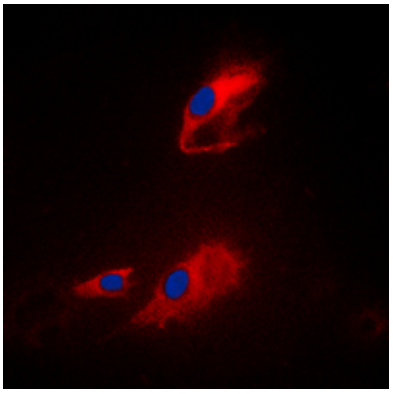
Images



Western blot analysis of ACOT8 expression in HEK293T (A), H446 (B), mouse lung (C) whole cell lysates. (Predicted band size: 35 kD; Observed band size: 36 kD)

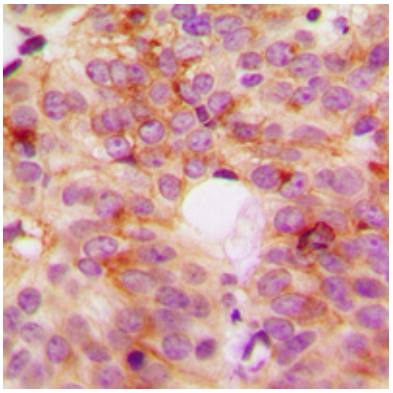


Immunohistochemical analysis of ACOT8 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected 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).

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chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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