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

Anti-ACOT4 Antibody

Catalog # AP60125

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q8N9L9
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	46327

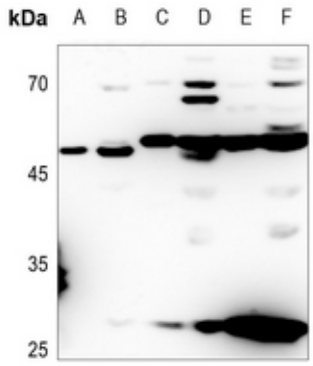
Additional Information

Gene ID	122970
Other Names	PTE2B; PTEIB; Acyl-coenzyme A thioesterase 4; Acyl-CoA thioesterase 4; PTE-2b; Peroxisomal acyl coenzyme A thioester hydrolase Ib; Peroxisomal long-chain acyl-CoA thioesterase Ib; PTE-Ib
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human ACOT4. 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

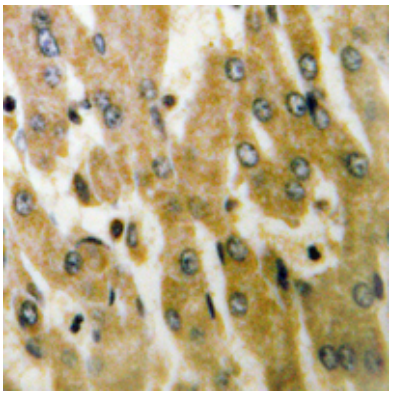
Protein Information

Name	ACOT4
Synonyms	PTE2B, PTEIB
Function	Catalyzes the hydrolysis of acyl-CoAs into free fatty acids and coenzyme A (CoASH), regulating their respective intracellular levels (PubMed:16940157). Functions as a peroxisomal succinyl-coenzyme A thioesterase that can also hydrolyze glutaryl-CoA and long chain saturated acyl-CoAs (PubMed:16940157).
Cellular Location	Peroxisome.
Tissue Location	Strongest expression in liver and kidney and weaker expression in placenta, heart, and muscle

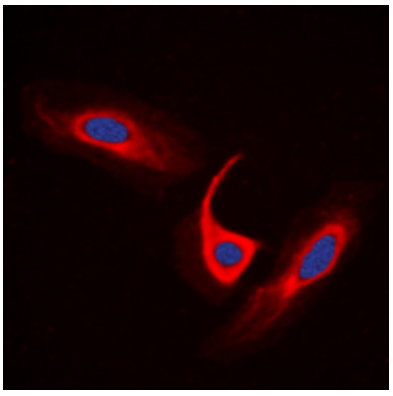
Images



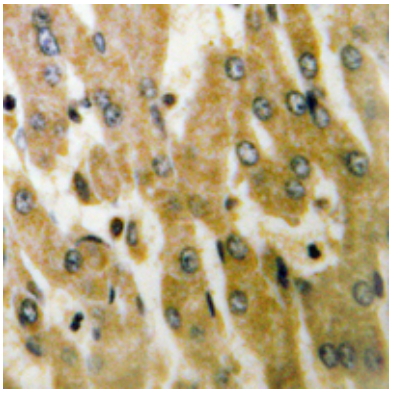
Western blot analysis of ACOT4 expression in U2OS (A), MCF7 (B), mouse lung (C), mouse liver (D), rat lung (E), rat liver (F) whole cell lysates. (Predicted band size: 46 kD; Observed band size: 47 kD)



Immunohistochemical analysis of ACOT4 staining in human liver 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 ACOT4 staining in A549 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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