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Anti-ACOT2 Antibody

Catalog # AP60088

Product Information

Application	WB, IHC, IF/IC
Primary Accession	P49753
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	53218

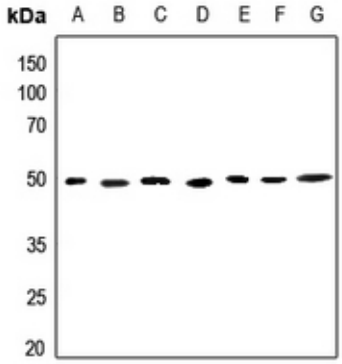
Additional Information

Gene ID	10965
Other Names	PTE2; PTE2A; Acyl-coenzyme A thioesterase 2 mitochondrial; Acyl-CoA thioesterase 2; Acyl-coenzyme A thioester hydrolase 2a; CTE-Ia; Long-chain acyl-CoA thioesterase 2; ZAP128
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human ACOT2. 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

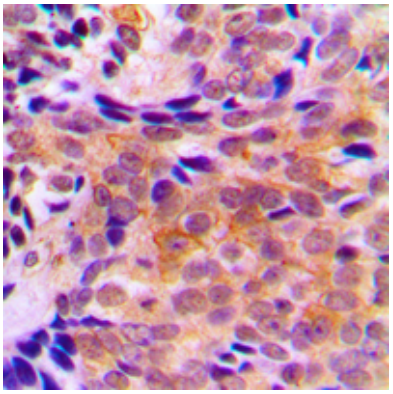
Protein Information

Name	ACOT2
Synonyms	PTE2, PTE2A
Function	Catalyzes the hydrolysis of acyl-CoAs into free fatty acids and coenzyme A (CoASH), regulating their respective intracellular levels (PubMed:10944470, PubMed:16940157). Displays higher activity toward long chain acyl CoAs (C14-C20) (PubMed:10944470, PubMed:16940157). The enzyme is involved in enhancing the hepatic fatty acid oxidation in mitochondria (By similarity).
Cellular Location	Mitochondrion.
Tissue Location	Strongest expression in heart, liver, muscle and kidney. Weak in placenta and pancreas.

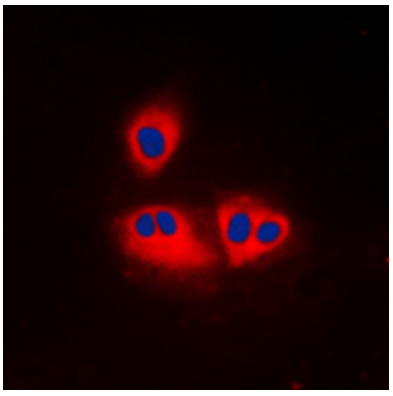
Images



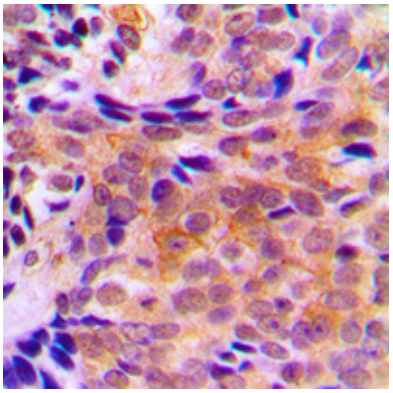
Western blot analysis of ACOT2 expression in HEK293T (A), Hela (B), H1688 (C), mouse kidney (D), mouse testis (E), rat kidney (F), rat testis (G) whole cell lysates. (Predicted band size: 53 kD; Observed band size: 53 kD)



Immunohistochemical analysis of ACOT2 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 ACOT2 staining in K562 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).



Immunohistochemical analysis of ACOT2 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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.