

**Anti-ACOT2 Antibody**  
**Rabbit polyclonal antibody to ACOT2**  
**Catalog # AP60088****Specification**

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**Anti-ACOT2 Antibody - Product Information**

Application	WB, IH, IF
Primary Accession	<a href="#">P49753</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	53218

**Anti-ACOT2 Antibody - 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**

Recognizes endogenous levels of ACOT2 protein.

**Dilution**WB~~WB (1/500 - 1/1000), IH (1/100 - 1/200), IF/IC (1/100 - 1/500)  
IH~~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-ACOT2 Antibody - 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:&lt;a href="http://www.uniprot.org/citations/16940157" target="\_blank"&gt;16940157&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/10944470" target="\_blank"&gt;10944470&lt;/a&gt;). Displays higher activity toward long chain acyl CoAs (C14-C20) (PubMed:&lt;a href="http://www.uniprot.org/citations/16940157" target="\_blank"&gt;16940157&lt;/a&gt;),

PubMed:<a href="http://www.uniprot.org/citations/10944470" target="\_blank">10944470</a>).  
The enzyme is involved in enhancing the hepatic fatty acid oxidation in mitochondria (By similarity).

**Cellular Location**

Mitochondrion.

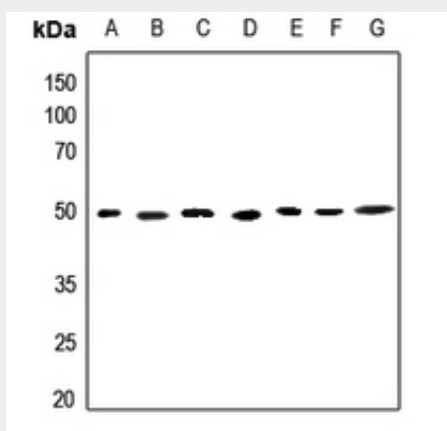
**Tissue Location**

Strongest expression in heart, liver, muscle and kidney. Weak in placenta and pancreas.

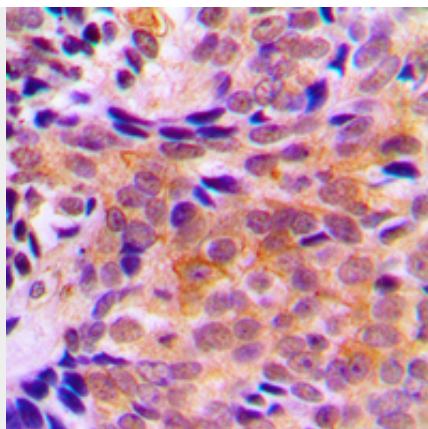
**Anti-ACOT2 Antibody - Protocols**

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

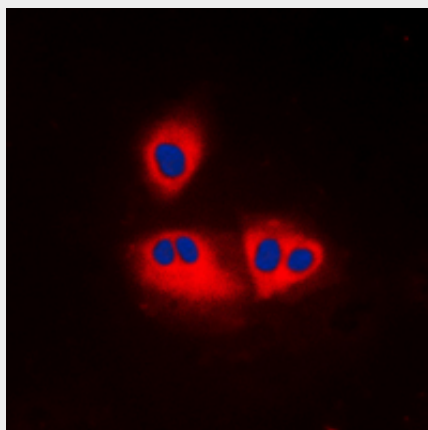
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-ACOT2 Antibody - 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.



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).

#### **Anti-ACOT2 Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human ACOT2. The exact sequence is proprietary.