

**ACOT2 Antibody (Center) Blocking peptide**  
Synthetic peptide  
Catalog # BP5652c

### Specification

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#### ACOT2 Antibody (Center) Blocking peptide - Product Information

Primary Accession [P49753](#)  
Other Accession [NP\\_006812.3](#)

#### ACOT2 Antibody (Center) Blocking peptide - Additional Information

Gene ID 10965

##### Other Names

Acyl-coenzyme A thioesterase 2, mitochondrial, Acyl-CoA thioesterase 2, Acyl-coenzyme A thioester hydrolase 2a, CTE-1a, Long-chain acyl-CoA thioesterase 2, ZAP128, ACOT2, PTE2, PTE2A

##### Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

##### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

##### Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

#### ACOT2 Antibody (Center) Blocking peptide - 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:<a href="http://www.uniprot.org/citations/10944470" target="\_blank">10944470</a>, PubMed:<a href="http://www.uniprot.org/citations/16940157" target="\_blank">16940157</a>). Displays higher activity toward long chain acyl CoAs (C14-C20) (PubMed:<a href="http://www.uniprot.org/citations/10944470" target="\_blank">10944470</a>, PubMed:<a href="http://www.uniprot.org/citations/16940157" target="\_blank">16940157</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.

### **ACOT2 Antibody (Center) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

### **ACOT2 Antibody (Center) Blocking peptide - Images**

### **ACOT2 Antibody (Center) Blocking peptide - Background**

Acyl-CoA thioesterases, such as ACOT2, are a group of enzymes that hydrolyze CoA esters, such as acyl-CoAs, bile CoAs, and CoA esters of prostaglandins, to the corresponding free acid and CoA (Hunt et al., 2005 [PubMed 16103133]).

### **ACOT2 Antibody (Center) Blocking peptide - References**

Mandel, C.R., et al. Biochem. Biophys. Res. Commun. 385(4):630-633(2009) Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :Hunt, M.C., et al. FASEB J. 20(11):1855-1864(2006)