

## Anti-ACOT2 antibody

<b>Cat. No.</b>	ml220042
<b>Package</b>	25 µl/100 µl/200 µl
<b>Storage</b>	-20°C, pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol

### Product overview

<b>Description</b>	Anti-ACOT2 rabbit polyclonal antibody
<b>Applications</b>	ELISA, WB, IHC
<b>Immunogen</b>	Fusion protein of human ACOT2
<b>Reactivity</b>	Human
<b>Content</b>	0.2 mg/ml
<b>Host species</b>	Rabbit
<b>Ig class</b>	Immunogen-specific rabbit IgG
<b>Purification</b>	Antigen affinity purification

### Target information

<b>Symbol</b>	ACOT2
<b>Full name</b>	Acyl-CoA thioesterase 2

**Synonyms** MTE1; PTE2; CTE1A; PTE2A; CTE-1A; ZAP128

**Swissprot** P49753

#### Target Background

This gene encodes a member of the acyl-CoA thioesterase protein family, and is one of four acyl-CoA hydrolase genes located in a cluster on chromosome 14. Alternative splicing results in multiple transcript variants. Acyl-CoA thioesterases, such as ACOT2, are a group of enzymes that hydrolyze Coenzyme A (CoA) esters, such as acyl-CoAs, bile CoAs, and CoA esters of prostaglandins, to the corresponding free acid and CoA. ACOT2 shows high acyl-CoA thioesterase activity on medium- and long-chain acyl-CoAs, with an optimal pH of 8.5. It is most active on myristoyl-CoA but also shows high activity on palmitoyl-CoA, stearoyl-CoA, and arachidoyl-CoA.

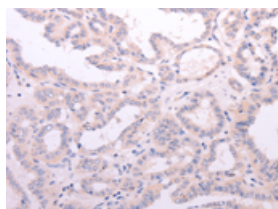
## Applications

### Immunohistochemistry

Predicted cell location: Cytoplasm

Positive control: Human thyroid cancer

Recommended dilution: 15-50

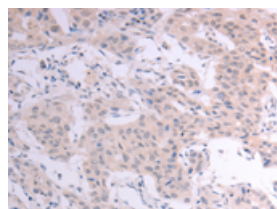


The image on the left is immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using ml220042(ACOT2 Antibody) at dilution 1/15, on the right is treated with fusion protein. (Original magnification:  $\times 200$ )

Predicted cell location: Cytoplasm

Positive control: Human lung cancer

Recommended dilution: 15-50



The image on the left is immunohistochemistry of paraffin-embedded Human lung cancer tissue using ml220042(ACOT2 Antibody) at dilution 1/15, on the right is treated with fusion protein. (Original magnification:  $\times 200$ )

### Western blotting

Predicted band size: 53 kDa

Positive control: MCF7 cells

Recommended dilution: 100-500

Gel: 8%SDS-PAGE

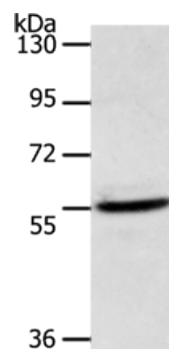
Lysate: 40 µg

Lane: MCF7 cells

Primary antibody: ml220042(ACOT2 Antibody) at dilution 1/150

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

Exposure time: 30 minutes



## ELISA

Recommended dilution: 500-2000

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