

ACOT13 / THEM2 Antibody (C-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS13755**Specification**

ACOT13 / THEM2 Antibody (C-Terminus) - Product Information

Application	IF
Primary Accession	O9NPJ3
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	15kDa KDa

ACOT13 / THEM2 Antibody (C-Terminus) - Additional Information**Gene ID** 55856**Other Names**

Acyl-coenzyme A thioesterase 13, Acyl-CoA thioesterase 13, 3.1.2.-, Thioesterase superfamily member 2, Acyl-coenzyme A thioesterase 13, N-terminally processed, ACOT13, THEM2

Target/Specificity

Human THEM2

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions

ACOT13 / THEM2 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

ACOT13 / THEM2 Antibody (C-Terminus) - Protein Information**Name** ACOT13 ([HGNC:20999](#))**Synonyms** THEM2**Function**

Catalyzes the hydrolysis of acyl-CoAs into free fatty acids and coenzyme A (CoASH), regulating their respective intracellular levels (PubMed:16934754, PubMed:19170545). Has acyl-CoA thioesterase activity towards medium (C12) and long-chain (C18) fatty acyl-CoA substrates (By similarity) (PubMed:16934754, PubMed:19170545). Can also hydrolyze 3-hydroxyphenylacetyl-CoA and 3,4-dihydroxyphenylacetyl-CoA (in vitro) (By similarity) (PubMed:16934754, PubMed:19170545).

May play a role in controlling adaptive thermogenesis (By similarity).

Cellular Location

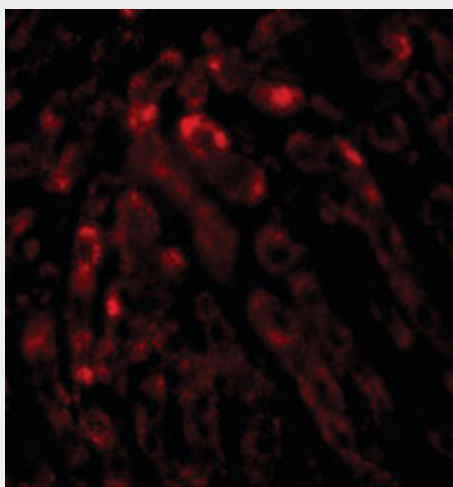
Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q9CQR4}. Mitochondrion {ECO:0000250|UniProtKB:Q9CQR4}. Nucleus {ECO:0000250|UniProtKB:Q9CQR4} Cytoplasm, cytoskeleton, spindle {ECO:0000250|UniProtKB:Q9CQR4} Note=During interphase, found both in the nucleus and in the cytoplasm At mitosis, localizes to the spindle. Colocalizes with tubulin {ECO:0000250|UniProtKB:Q9CQR4}

ACOT13 / THEM2 Antibody (C-Terminus) - 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](#)

ACOT13 / THEM2 Antibody (C-Terminus) - Images



Immunofluorescence of THEM2 in human liver tissue with THEM2 antibody at 20 ug/ml.

ACOT13 / THEM2 Antibody (C-Terminus) - Background

Acyl-CoA thioesterases are a group of enzymes that catalyze the hydrolysis of acyl-CoAs to the free fatty acid and coenzyme A (CoASH), providing the potential to regulate intracellular levels of acyl-CoAs, free fatty acids and CoASH. Has acyl-CoA thioesterase activity towards medium (C12) and long-chain (C18) fatty acyl-CoA substrates. Can also hydrolyze 3- hydroxyphenylacetyl-CoA and 3,4-dihydroxyphenylacetyl-CoA (in vitro). May play a role in controlling adaptive thermogenesis (By similarity).

ACOT13 / THEM2 Antibody (C-Terminus) - References

Hu R.-M.,et al.Proc. Natl. Acad. Sci. U.S.A. 97:9543-9548(2000).
Yu W.-Q.,et al.Submitted (JUN-2000) to the EMBL/GenBank/DDBJ databases.

Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mungall A.J.,et al.Nature 425:805-811(2003).
Gauci S.,et al.Anal. Chem. 81:4493-4501(2009).