

ACOT13 / THEM2 Antibody (C-Terminus)

Rabbit Polyclonal Antibody Catalog # ALS13755

Specification

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

Application IF
Primary Accession Q9NPJ3
Reactivity Human

Reactivity
Human, Mouse, Rat
Host
Rabbit
Relucional

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

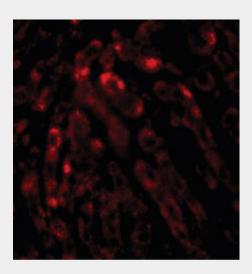
Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q9CQR4}. Mitochondrion {ECO:0000250|UniProtKB:Q9CQR4}. Nucleus {ECO:0000250|UniProtKB:Q9CQR4} Cytoplasm, cytoskeleton, spindle {ECO:0000250|UniProtKB:Q9CQR4} Note=During interphase, found both in the nucleus and in the cytoplasm At mitosis, localizes to the spindle. 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
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- 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).