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ACOT13 / THEM2 Antibody (aa100-150)

Rabbit Polyclonal Antibody
Catalog # ALS15250

Specification

ACOT13 / THEM2 Antibody (aa100-150) - Product Information

Application	**WB, IHC**
Primary Accession	Q9NPJ3
Reactivity	**Human, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**15kDa KDa**

ACOT13 / THEM2 Antibody (aa100-150) - 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 ACOT13 / THEM2

Reconstitution & Storage
Store at 4°C for short term applications. For long term storage, aliquot and store at -20°C.

Precautions
ACOT13 / THEM2 Antibody (aa100-150) is for research use only and not for use in diagnostic or therapeutic procedures.

ACOT13 / THEM2 Antibody (aa100-150) - 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).

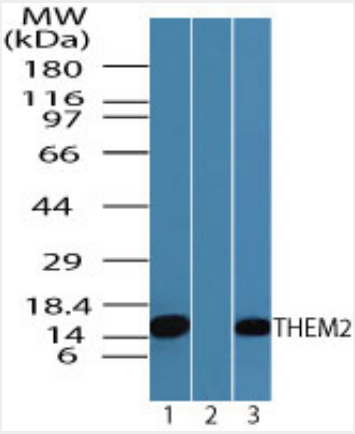
Cellular Location
Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q9CQR4}. Mitochondrion {ECO:0000250|UniProtKB:Q9CQR4}. Nucleus {ECO:0000250|UniProtKB:Q9CQR4} Cytoplasm, cytoskeleton, spindle {ECO:0000250|UniProtKB:Q9CQR4} Note=During interphase, found both in the nucleus and in the cytoplasm At mitosis,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

ACOT13 / THEM2 Antibody (aa100-150) - Protocols

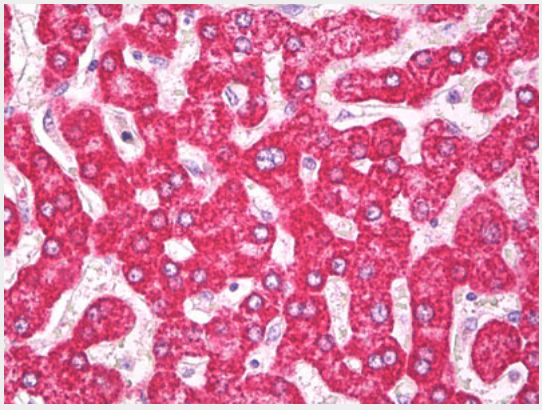
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ACOT13 / THEM2 Antibody (aa100-150) - Images



Western blot of THEM2 in 293 cell lysate in the 1) absence and 2) presence of immunizing peptide...



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Anti-THEM2 / ACOT13 antibody IHC of human liver.

ACOT13 / THEM2 Antibody (aa100-150) - 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 (aa100-150) - 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).
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