

# THEM2 Antibody

Mouse Monoclonal Antibody (Mab)

Catalog # AM1860b

## Product Information

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Application	WB, E
Primary Accession	<a href="#">Q9NPJ3</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1,K
Clone Names	169CT7.1.3
Calculated MW	14960

## Additional Information

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Gene ID	55856
Other Names	Acyl-coenzyme A thioesterase 13, Acyl-CoA thioesterase 13, 312-, Thioesterase superfamily member 2, Acyl-coenzyme A thioesterase 13, N-terminally processed, ACOT13, THEM2
Target/Specificity	This THEM2 monoclonal antibody is generated from mouse immunized with THEM2 recombinant protein.
Dilution	WB~~1:100~1000 E~~Use at an assay dependent concentration.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	THEM2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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Name	ACOT13 ( <a href="#">HGNC:20999</a> )
Synonyms	THEM2
Function	Catalyzes the hydrolysis of acyl-CoAs into free fatty acids and coenzyme A (CoASH), regulating their respective intracellular levels (PubMed: <a href="#">16934754</a> , PubMed: <a href="#">19170545</a> ). 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}

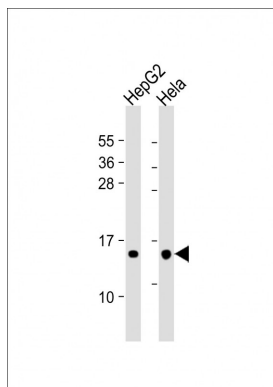
## Background

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THEM2 belongs to the UPF0152 (paaI) family. Its exact function is still undetermined.

## Images

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All lanes : Anti-THEM2 Antibody at 1:1000 dilution Lane 1: HepG2 whole cell lysate Lane 2: HeLa whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 15 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.