10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

THEM2 Antibody

Mouse Monoclonal Antibody (Mab)
Catalog # AM1860b

Product Information

Application	WB, E
Primary Accession	Q9NPJ3
Reactivity	Human
Predicted	Mouse, Rat, Canine, Rabbit
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1,K
Clone Names	169CT7.1.3
Calculated MW	14960

Additional Information

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

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).

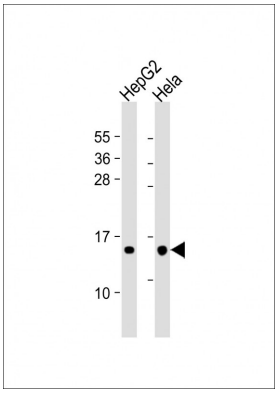
Cellular Location

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}

Background

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

Images



All lanes : Anti-THEM2 Antibodyat 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'.