THEM2 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	THEM2, Monoclonal Antibody
Full Product Name	THEM2 (ACOT13, THEM2, Acyl-coenzyme A thioesterase 13, Thioesterase Superfamily member 2) (MaxLight 550)
Product Gene Name	anti-THEM2 antibody
Product Synonym Gene Name	ACOT13
Product Synonym Names	ACOT13; THEM2; Acyl-coenzyme A thioesterase 13; Thioesterase superfamily member 2
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	169CT7.1.3
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein G Affinity Chromatography
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	12,366 Da
OMIM	615652
3D Structure	ModBase 3D Structure for Q9NPJ3
Immunogen	THEM2 Mab is generated from mouse immunized with THEM2 recombinant protein.
Conjugate	MaxLight550
Product Categories/Family for anti-THEM2 antibody	Antibodies; Proteins
Applications Tested/Suitable for anti-THEM2 antibody	FLISA, Western Blot (WB)
Application Notes for anti-THEM2 antibody	FLISA: 1:1000 WB: 1:100-1000 Applications are based on unconjugated antibody.
Related Product Information for anti-THEM2 antibody	THEM2 belongs to the UPF0152 (paaI) family. Its exact function is still undetermined.
Other Notes	Small volumes of anti-THEM2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for THEM2 purchase	MBS6209993 is an antibody targeting THEM2. Also known as THEM2 (ACOT13, THEM2, Acyl-coenzyme A thioesterase 13, Thioesterase Superfamily member 2) (MaxLight 550). Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for THEM2. It may not necessarily be applicable to this product.

NCBI GI #	231567183
NCBI GeneID	55856
NCBI Accession #	NP_001153566.1
UniProt Primary Accession #	Q9NPJ3
UniProt Secondary Accession #	O95549; F5H2L4
UniProt Related Accession #	Q9NPJ3
GenBank Nucleotide #	NM_001160094.1
NCBI Official Full Name	acyl-coenzyme A thioesterase 13 isoform 2
NCBI Official Synonym Full Names	acyl-CoA thioesterase 13
NCBI Official Symbol	ACOT13
NCBI Official Synonym Symbols	HT012; THEM2; PNAS-27
UniProt Protein Name	Acyl-coenzyme A thioesterase 13
UniProt Synonym Protein Names	Thioesterase superfamily member 2Acyl-coenzyme A thioesterase 13, N-terminally processed
UniProt Gene Name	ACOT13
UniProt Synonym Gene Names	THEM2; Acyl-CoA thioesterase 13
UniProt Entry Name	ACO13_HUMAN
NCBI Protein Information	acyl-coenzyme A thioesterase 13; hypothalamus protein HT012; thioesterase superfamily member 2
NCBI Summary for THEM2	This gene encodes a member of the thioesterase superfamily. In humans, the protein co-localizes with microtubules and is essential for sustained cell proliferation. The orthologous mouse protein forms a homotetramer and is associated with mitochondria. The mouse protein functions as a medium- and long-chain acyl-CoA thioesterase. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, May 2009]
UniProt Comments for THEM2	THEM2: 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-dihydrohyphenylacetyl-CoA (in vitro). Belongs to the thioesterase PaaI family. Protein type: EC 3.1.2.- Chromosomal Location of Human Ortholog: 6p22.3 Cellular Component: mitochondrion; spindle; nucleus; cytosol Molecular Function: acyl-CoA hydrolase activity Biological Process: metabolic process; protein homotetramerization
Research Articles on THEM2	**1.** study failed to show any association of THEM2 SNPs with developmental dyslexia in an Indian population.
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