THEM2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	THEM2, Polyclonal Antibody
Full Product Name	THEM2, NT (Acyl-coenzyme A Thioesterase 13, Acyl-CoA Thioesterase 13, Thioesterase Superfamily Member 2, ACOT13, HT012, PNAS-27) (Azide free) (HRP)
Product Gene Name	anti-THEM2 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human THEM2.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	12,366 Da
OMIM	615652
3D Structure	ModBase 3D Structure for Q9NPJ3
Immunogen	Synthetic peptide selected from the N-terminal region of human THEM2 (KLH).
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-THEM2 antibody	Antibodies; Enzymes
Applications Tested/Suitable for anti-THEM2 antibody	Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-THEM2 antibody	IHC: 1:10-1:50 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-THEM2 antibody	MBS6502441 is an antibody targeting THEM2. Also known as THEM2, NT (Acyl-coenzyme A Thioesterase 13, Acyl-CoA Thioesterase 13, Thioesterase Superfamily Member 2, ACOT13, HT012, PNAS-27) (Azide free) (HRP). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-THEM2 antibody	1. Cheng, Z., Biochem. Biophys. Res. Commun. 350(4), 850-853 (2006). 2. Cheng, Z., Biochem. Biophys. Res. Commun. 349(1), 172-177 (2006).
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.

ADDITIONAL DETAILS

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

NCBI GI #	8923812
NCBI GeneID	55856
NCBI Accession #	NP_060943
UniProt Primary Accession #	Q9NPJ3
UniProt Secondary Accession #	O95549; F5H2L4
UniProt Related Accession #	Q9NPJ3
GenBank Nucleotide #	NM_018473.3
NCBI Official Full Name	acyl-coenzyme A thioesterase 13 isoform 1
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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