ACO13 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ACO13, Polyclonal Antibody
Full Product Name	ACO13 rabbit pAb
Product Gene Name	anti-ACO13 antibody
Product Synonym Gene Name	ACOT13; THEM2; HT012; PNAS-27
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
Preparation and Storage	Store at -20 degree C for ~1 year
Molecular Weight	12,366 Da
OMIM	615652
3D Structure	ModBase 3D Structure for Q9NPJ3
Product Categories/Family for anti-ACO13 antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ACO13 antibody	Western Blot (WB)
Application Notes for anti-ACO13 antibody	WB: 1:1000-2000
Related Product Information for anti-ACO13 antibody	MBS8599188 is an antibody targeting ACO13. Also known as ACO13 rabbit pAb. Reactive in Human, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-ACO13 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 ACO13. 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 ACO13	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 ACO13	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 ACO13	**1.** study failed to show any association of THEM2 SNPs with developmental dyslexia in an Indian population.
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