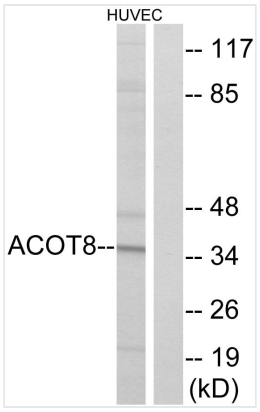
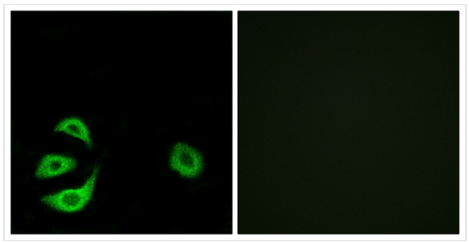
ACOT8 Antibody

PRODUCT OVERVIEW

Product Name	ACOT8, Antibody
Full Product Name	ACOT8 Antibody
Product Gene Name	anti-ACOT8 antibody
Product Synonym Names	ACTE-III; ACTEIII; acyl-CoA thioesterase 8; acyl-coenzyme A thioesterase 8; choloyl-coenzyme A thioesterase; EC 3.1.2.27; HIV-Nef-associated acyl coA thioesterase; peroxisomal acyl-coenzyme A thioester hydrolase 1; peroxisomal long-chain acyl-coA thioesterase 1; PTE-1; PTE-2; TE; thioesterase II
Immunogen Sequence	antigen is CIDQYLRDPN LQKRYP
Species Reactivity	Human, Mouse, Rat
Form/Format	In phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Specificity	ACOT8 antibody detects endogenous levels of total ACOT8 protein.
Preparation and Storage	Store at-20 degree C for 1 year.
Molecular Weight	35,914 Da
OMIM	608123
3D Structure	ModBase 3D Structure for O14734
Immunogen	The antiserum was produced against synthesized peptide derived from internal of human ACOT8.
Product Categories/Family for anti-ACOT8 antibody	Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ACOT8 antibody	Western Blot (WB), Immunofluorescence (IF), ELISA (EIA)
Application Notes for anti-ACOT8 antibody	WB: 1:500~1:1000 IF: 1:100~1:500 ELISA: 1:40000
Related Product Information for anti-ACOT8 antibody	MBS856469 is an antibody targeting ACOT8. Also known as ACOT8 Antibody. Reactive in Human, Mouse, Rat.
Product References and Citations for anti-ACOT8 antibody	Watanabe H., Biochem. Biophys. Res. Commun. 238:234-239(1997). Liu L.X., J. Biol. Chem. 272:13779-13785(1997). Jones J.M., J. Biol. Chem. 274:9216-9223(1999).
Other Notes	Small volumes of anti-ACOT8 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.



Testing Data of anti-ACOT8 antibody



Western Blot (WB) of anti-ACOT8 antibody
Peptide-+ Western blot analysis of extracts from HUVEC cells, using ACOT8 antibody.
Immunofluorescence analysis of A549 cells, using ACOT8 antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ACOT8. It may not necessarily be applicable to this product.

NCBI GI #	34577075
NCBI GeneID	10005
NCBI Accession #	NP_005460.2
UniProt Primary Accession #	O14734
UniProt Secondary Accession #	O15261; Q17RX4
UniProt Related Accession #	O14734
GenBank Nucleotide #	NM_005469.3
NCBI Official Full Name	acyl-coenzyme A thioesterase 8
NCBI Official Synonym Full Names	acyl-CoA thioesterase 8
NCBI Official Symbol	ACOT8
NCBI Official Synonym Symbols	hTE; NAP1; PTE1; PTE2; PTE-1; PTE-2; HNAACTE; hACTE-III
UniProt Protein Name	Acyl-coenzyme A thioesterase 8
UniProt Synonym Protein Names	Choloyl-coenzyme A thioesterase; HIV-Nef-associated acyl-CoA thioesterase; PTE-2; Peroxisomal acyl-coenzyme A thioester hydrolase 1; PTE-1; Peroxisomal long-chain acyl-CoA thioesterase 1; Thioesterase II; hACTE-III; hACTEIII; hTE
Protein Family	Acyl-coenzyme A thioesterase
UniProt Gene Name	ACOT8
UniProt Synonym Gene Names	ACTEIII; PTE1; PTE2; Acyl-CoA thioesterase 8; PTE-1; hACTE-III; hACTEIII; hTE
NCBI Protein Information	acyl-coenzyme A thioesterase 8
NCBI Summary for ACOT8	The protein encoded by this gene is a peroxisomal thioesterase that appears to be involved more in the oxidation of fatty acids rather than in their formation. The encoded protein can bind to the human immunodeficiency virus-1 protein Nef, and mediate Nef-induced down-regulation of CD4 in T-cells. [provided by RefSeq, Oct 2010]
UniProt Comments for ACOT8	Acyl-coenzyme A (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 (PubMed:9299485, PubMed:9153233, PubMed:15194431). Competes with bile acid CoA:amino acid N-acyltransferase (BAAT) for bile acid-CoA substrate (such as chenodeoxycholoyl-CoA). Shows a preference for medium-length fatty acyl-CoAs (C2 to C20) (PubMed:9299485, PubMed:9153233). Inactive towards substrates with more than C20 aliphatic chains (PubMed:9153233). Involved in the metabolic regulation of peroxisome proliferation (PubMed:15194431).

Research Articles on ACOT8	**1.** In summary, lipolytic enzyme ACOT8 is frequently upregulated in HCC clinical specimens. More importantly, ACOT8 silencing leads to inhibition of cell growth in HCC in vitro.
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