

AWAT2 Antibody (C-term) Blocking peptide Synthetic peptide

Catalog # BP10826b

Specification

AWAT2 Antibody (C-term) Blocking peptide - Product Information

Primary Accession

<u>Q6E213</u>

AWAT2 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 158835

Other Names

Acyl-CoA wax alcohol acyltransferase 2, Acyl-CoA retinol O-fatty-acyltransferase, ARAT, Retinol O-fatty-acyltransferase, Diacylglycerol O-acyltransferase 2-like protein 4, Diacylglycerol O-acyltransferase candidate 4, hDC4, Long-chain-alcohol O-fatty-acyltransferase 2, Multifunctional O-acyltransferase, Wax synthase, hWS, AWAT2, DC4, DGAT2L4, MFAT, WS

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions This product is for research use only. Not for use in diagnostic or therapeutic procedures.

AWAT2 Antibody (C-term) Blocking peptide - Protein Information

Name AWAT2

Synonyms DC4, DGAT2L4, MFAT {ECO:0000303|PubMed:1

Function

Acyltransferase that catalyzes the formation of ester bonds between fatty alcohols and fatty acyl-CoAs to form wax monoesters (PubMed:15220349, PubMed:15671038, PubMed:16106050, PubMed:28420705). Shows a preference for medium chain acyl-CoAs from C12 to C16 in length and fatty alcohols shorter than C20, as the acyl donors and acceptors, respectively (PubMed:15220349, PubMed:15671038). Also possesses acyl- CoA retinol acyltransferase (ARAT) activity that preferentially esterifies 11-cis-retinol, a chromophore precursor of bleached opsin pigments in cone cells (PubMed:16106050, PubMed:16106050, PubMed:16106050, PubMed:16106050, PubMed:16106050). Shows



higher catalytic efficiency toward 11-cis-retinol versus 9-cis-retinol, 13- cis-retinol, and all-trans-retinol substrates (PubMed:24799687).

Cellular Location Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q6E1M8}; Multi-pass membrane protein

Tissue Location

Highly expressed in skin, where it is primarily restricted to undifferentiated peripheral sebocytes. Also expressed at lower level in other tissues except pancreas

AWAT2 Antibody (C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

<u>Blocking Peptides</u>

AWAT2 Antibody (C-term) Blocking peptide - Images

AWAT2 Antibody (C-term) Blocking peptide - Background

This gene encodes an enzyme belonging to thediacylglycerol acyltransferase family. This enzyme produces waxesters by the esterification of long chain (or wax) alcohols withacyl-CoA-derived fatty acids. It functions in lipid metabolism in the skin, mostly in undifferentiated peripheral sebocytes. Thisenzyme may also have acyl-CoA:retinol acyltransferase activities, where it catalyzes the synthesis of diacylglycerols and retinylesters.

AWAT2 Antibody (C-term) Blocking peptide - References

Holmes, R.S. Comp. Biochem. Physiol. Part D Genomics Proteomics 5(1):45-54(2010)Yen, C.L., et al. J. Lipid Res. 46(11):2388-2397(2005)Turkish, A.R., et al. J. Biol. Chem. 280(15):14755-14764(2005)Cheng, J.B., et al. J. Biol. Chem. 279(36):37798-37807(2004)Winter, A., et al. Cytogenet. Genome Res. 102 (1-4), 42-47 (2003) :