

AWAT2 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP10826b**Specification**

AWAT2 Antibody (C-term) Blocking peptide - Product InformationPrimary Accession [Q6E213](#)**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:24799687). 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.

- [Blocking Peptides](#)

AWAT2 Antibody (C-term) Blocking peptide - Images**AWAT2 Antibody (C-term) Blocking peptide - Background**

This gene encodes an enzyme belonging to the diacylglycerol acyltransferase family. This enzyme produces wax esters by the esterification of long chain (or wax) alcohols with acyl-CoA-derived fatty acids. It functions in lipid metabolism in the skin, mostly in undifferentiated peripheral sebocytes. This enzyme 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) :