

For Research Use Only

AWAT1 Polyclonal antibody

Catalog Number: 24704-1-AP



Basic Information

Catalog Number:

24704-1-AP

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG20183

GenBank Accession Number:

BC153034

GeneID (NCBI):

158833

UNIPROT ID:

Q58HT5

Full Name:

acyl-CoA wax alcohol acyltransferase
1

Calculated MW:

328 aa, 38 kDa

Observed MW:

45 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:2000

IHC: 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Species Specificity:

human, mouse

**Note-IHC: suggested antigen retrieval with
TE buffer pH 9.0; (*) Alternatively, antigen
retrieval may be performed with citrate
buffer pH 6.0**

Positive Controls:

WB : HEK-293 cells, 3T3-L1 cells, NIH/3T3 cells

IHC : mouse liver tissue,

Background Information

AWAT1 is an ER-localized acyltransferase specialized for wax ester biosynthesis in sebaceous and meibomian glands. By esterifying long-chain fatty acyl-CoAs with fatty alcohols, AWAT1 generates crucial lipids that maintain skin barrier function, sebaceous secretion, and tear film stability. Dysregulation of AWAT1 contributes to meibomian gland dysfunction, dry eye disease, and sebaceous lipid imbalance, positioning AWAT1 as a key enzymatic regulator of surface lipid homeostasis.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

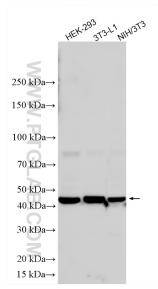
T: 4006900926

E: Proteintech-CN@ptglab.com

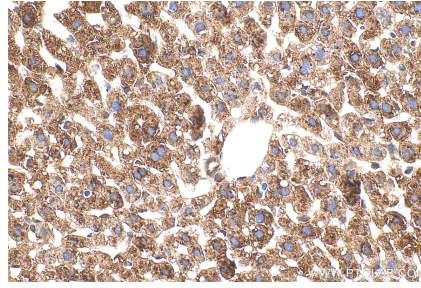
W: ptgcn.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 24704-1-AP (AWAT1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 24704-1-AP (AWAT1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).