

For Research Use Only

AWAT1 Polyclonal antibody

Catalog Number: 24704-1-AP



Basic Information

Catalog Number: 24704-1-AP	GenBank Accession Number: BC153034	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 520 ug/ml by Nanodrop and 227 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 158833	Recommended Dilutions: WB: 1:500-1:2000 IHC: 1:50-1:500
Source: Rabbit	UNIPROT ID: Q58HT5	
Isotype: IgG	Full Name: acyl-CoA wax alcohol acyltransferase 1	
Immunogen Catalog Number: AG20183	Calculated MW: 328 aa, 38 kDa	
	Observed MW: 45 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls: WB : HEK-293 cells, 3T3-L1 cells, NIH/3T3 cells IHC : mouse liver tissue,
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	

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

*** 20ul sizes contain 0.1% BSA

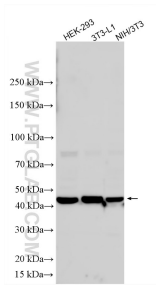
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

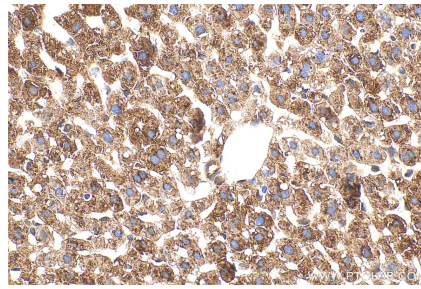
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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).