

MBOAT1 Polyclonal antibody

Catalog Number: 25615-1-AP

Basic Information

Catalog Number:

25615-1-AP

Size:

900 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG22470

GenBank Accession Number:

BC150652

GeneID (NCBI):

154141

UNIPROT ID:

Q6ZNC8

Full Name:

membrane bound O-acyltransferase domain containing 1

Calculated MW:

495 aa, 57 kDa

Observed MW:

45-57 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human

Positive Controls:

WB : MCF-7 cells,

Background Information

MBOAT1 (membrane bound O-acyltransferase domain containing 1), also known as LPLAT or LPSAT. It is expected to be located in membrane and widely expressed in colon, small intestine. MBOAT1 belongs to the membrane-bound O- acetyltransferase superfamily. Its encoded transmembrane protein is an enzyme that transfers organic compounds, preferably oleoyl-CoA, to the hydroxyl group of protein target in the membrane. The translocation that destroys the gene may be related to short finger toe syndrome. At the same time, it may also play a role in neurite growth during neuronal differentiation (PMID: 18772128). Studies have determined that phospholipid modifying enzymes MBOAT1 and MBOAT2 are iron sag inhibitors. MBOAT1/2 can inhibit iron sag by reshaping the phospholipid profile of cells, and their iron sag monitoring function is independent of GPX4 or FSP1. MBOAT1 and MBOAT2 are up-regulated by sex hormone receptors, namely estrogen receptor (ER) and androgen receptor (AR), respectively (PMID: 37267948). The calculated molecular weight of MBOAT1 is 57 kDa. This antibody can recognize the 40 kDa isoform of MBOAT1.

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

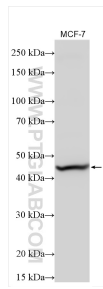
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 25615-1-AP (MBOAT1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.