

MBOAT7 Antibody(Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19694c

Specification

MBOAT7 Antibody(Center) - Product Information

Application	WB,E
Primary Accession	Q96N66
Other Accession	Q8CHK3 , Q0VCY6 , NP_001139528.1 , NP_001139554.1 , NP_001139555.1 , NP_077274.3
Reactivity	Human
Predicted	Bovine, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	151-180

MBOAT7 Antibody(Center) - Additional Information

Gene ID 79143

Other Names

Lysophospholipid acyltransferase 7, LPLAT 7, 231-, 1-acylglycerophosphatidylinositol O-acyltransferase, 231n4, Bladder and breast carcinoma-overexpressed gene 1 protein, Leukocyte receptor cluster member 4, Lysophosphatidylinositol acyltransferase, LPIAT, Lyso-PI acyltransferase, Membrane-bound O-acyltransferase domain-containing protein 7, O-acyltransferase domain-containing protein 7, h-mboa-7, MBOAT7, BB1, LENG4, OACT7

Target/Specificity

This MBOAT7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 151-180 amino acids from the Central region of human MBOAT7.

Dilution

WB~~1:2000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

MBOAT7 Antibody(Center) is for research use only and not for use in diagnostic or therapeutic procedures.

MBOAT7 Antibody(Center) - Protein Information

Name MBOAT7 ([HGNC:15505](#))

Synonyms BB1, LENG4, OACT7

Function Acyltransferase which catalyzes the transfer of an acyl group from an acyl-CoA to a lysophosphatidylinositol (1- acylglycerophosphatidylinositol or LPI) leading to the production of a phosphatidylinositol (1,2-diacyl-sn-glycero-3-phosphoinositol or PI) and participates in the reacylation step of the phospholipid remodeling pathway also known as the Lands cycle (PubMed:[18094042](#), PubMed:[18772128](#)). Prefers arachidonoyl-CoA as the acyl donor, thus contributing to the regulation of free levels arachidonic acid in cell (PubMed:[18094042](#), PubMed:[18772128](#)). In liver, participates in the regulation of triglyceride metabolism through the phosphatidylinositol acyl-chain remodeling regulation (PubMed:[32253259](#)).

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein. Note=Localized in specific membrane structures termed mitochondria-associated membranes (MAMs) which connect the endoplasmic reticulum (ER) and the mitochondria.

Tissue Location

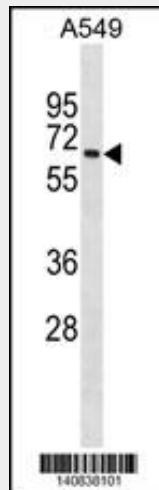
Overexpressed in metastatic breast and bladder carcinomas relative to normal breast epithelium and urothelium

MBOAT7 Antibody(Center) - Protocols

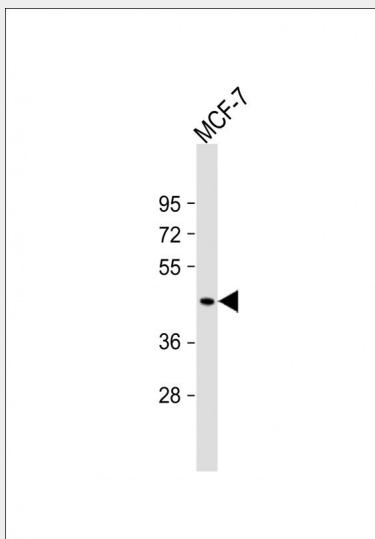
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

MBOAT7 Antibody(Center) - Images



MBOAT7 Antibody (Center) (Cat. #AP19694c) western blot analysis in A549 cell line lysates (35ug/lane). This demonstrates the MBOAT7 antibody detected the MBOAT7 protein (arrow).



Anti-MBOAT7 Antibody (Center) at 1:2000 dilution + MCF-7 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 53 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

MBOAT7 Antibody(Center) - Background

This gene encodes a member of the membrane-bound O-acyltransferases family of integral membrane proteins that have acyltransferase activity. The encoded protein is a lysophosphatidylinositol acyltransferase that has specificity for arachidonoyl-CoA as an acyl donor. This protein is involved in the reacylation of phospholipids as part of the phospholipid remodeling pathway known as the Land cycle. Alternative splicing results in multiple transcript variants.

MBOAT7 Antibody(Center) - References

Gijon, M.A., et al. J. Biol. Chem. 283(44):30235-30245(2008)
Lee, H.C., et al. Mol. Biol. Cell 19(3):1174-1184(2008)
Wende, H., et al. Immunogenetics 51 (8-9), 703-713 (2000) :
Fukunaga-Johnson, N., et al. Anticancer Res. 16 (3A), 1085-1090 (1996) :