

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

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**MBOAT7 Antibody(Center) - Product Information**

Application	<b>WB,E</b>
Primary Accession	<a href="#">O96N66</a>
Other Accession	<a href="#">O8CHK3</a> , <a href="#">O0VCY6</a> , <a href="#">NP_001139528.1</a> , <a href="#">NP_001139554.1</a> , <a href="#">NP_001139555.1</a> , <a href="#">NP_077274.3</a>
Reactivity	<b>Human</b>
Predicted	<b>Bovine, Mouse</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Antigen Region	<b>151-180</b>

**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

**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**

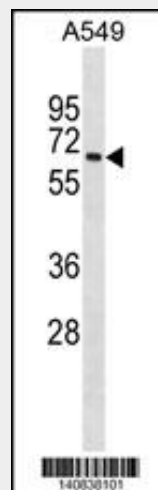
Overexpressed in metastatic breast and bladder carcinomas relative to normal breast epithelium and urothelium

### **MBOAT7 Antibody(Center) - Protocols**

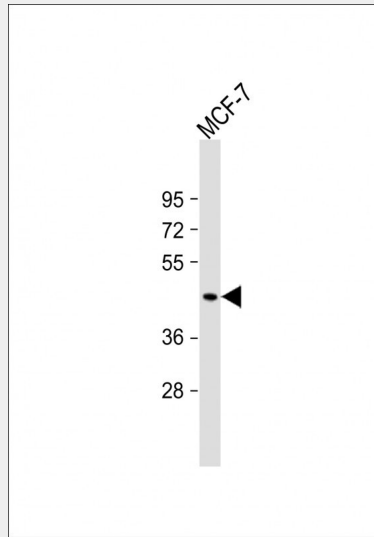
Provided below are standard protocols that you may find useful for product applications.

- [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) :