

# IHC*easy* MBOAT1 Ready-To-Use IHC Kit

Catalog Number: **KHC2602**

## General Information

Sample type:  
FFPE tissue  
Cited sample type:  
Reactivity:  
Human  
Cited Reactivity:

Assay type:  
Immunohistochemistry  
Primary antibody type:  
Rabbit Polyclonal  
Secondary antibody type:  
Polymer-HRP-Goat anti-Rabbit

## Kit Component

Component	Size	Concentration
Antigen Retrieval Buffer	100 mL	50×
Washing Buffer	100 mL ×2	20×
Blocking Buffer	5 mL	RTU
Primary Antibody	5 mL	RTU
Secondary Antibody	5 mL	RTU
Chromogen Component A	0.2 mL	RTU
Chromogen Component B	4 mL	RTU
Signal Enhancer	5 mL	RTU
Counter Staining Reagent	5 mL	RTU
Mounting Media	5 mL	RTU
Control Slide	1 slide (Optional)	FFPE
Datasheet	1 Copy	
Manual	1 Copy	

## Storage Instructions

All the reagents are stored at 2-8°C. The kit is stable for 6 months from the date of receipt.

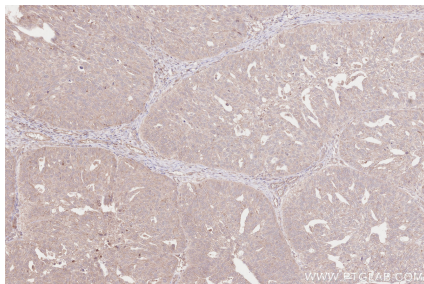
## Background

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. 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.

## Synonyms

MBOAT1,1-acylglycerophosphocholine O-acyltransfera

## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using KHC2602 (MBOAT1 IHC Kit).