



# LPAAT-θ Monoclonal Antibody

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog No</b>                  | YP-mAb-02661                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Isotype</b>                     | IgG                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Reactivity</b>                  | Human;Mouse;Rat                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Applications</b>                | WB                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Gene Name</b>                   | AGPAT9                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Immunogen</b>                   | The antiserum was produced against synthesized peptide derived from human AGPAT9. AA range:381-430                                                                                                                                                                                                                                                                                                |
| <b>Specificity</b>                 | LPAAT-θ Monoclonal Antibody detects endogenous levels of LPAAT-θ protein.                                                                                                                                                                                                                                                                                                                         |
| <b>Formulation</b>                 | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>                      | Monoclonal, Mouse,IgG                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Purification</b>                | The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                              |
| <b>Dilution</b>                    | WB 1:500-1:2000                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Concentration</b>               | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Purity</b>                      | ≥90%                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Storage Stability</b>           | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Synonyms</b>                    | AGPAT9;1 AGP acyltransferase 9;1 AGPAT 9;1-acyl-sn-glycerol-3-phosphate O-acyltransferase 10;1-acyl-sn-glycerol-3-phosphate O-acyltransferase 9;LPAAT-θ; Glycerol-3-phosphate acyltransferase 3;GPAT3;MAG1;HMFN0839;GPAT-3;1-acylglycerol-3-phosphate O-acyltransferase 9;1-AGP acyltransferase 9;1-AGPAT 9;Acyl-CoA:glycerol-3-phosphate acyltransferase 3;hGPAT3;Lung cancer metastas           |
| <b>Observed Band</b>               | 48kD                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Calculated Molecular Weight</b> | 48kD                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Cell Pathway</b>                | Endoplasmic reticulum membrane ; Multi-pass membrane protein .                                                                                                                                                                                                                                                                                                                                    |
| <b>Tissue Specificity</b>          | Widely expressed. Expressed in liver, kidney, testis, brain, heart, skeletal muscle, thyroid, prostate, thymus and placenta. Also expressed lung and adipose tissue.                                                                                                                                                                                                                              |
| <b>Function</b>                    | catalytic activity:Acyl-CoA + sn-glycerol 3-phosphate = CoA + 1-acyl-sn-glycerol 3-phosphate.,domain:The HXXXXD motif is essential for acyltransferase activity and may constitute the binding site for the phosphate moiety of the glycerol-3-phosphate.,enzyme regulation:Inhibited by N-ethylmaleimide (NEM).,function:Esterifies acyl-group from acyl-ACP to the sn-1 position of glycerol-3- |



phosphate, an essential step in glycerolipid biosynthesis. Overexpression activates the mTOR pathway.,pathway:Glycerolipid metabolism; triacylglycerol biosynthesis.,pathway:Phospholipid metabolism; CDP-diacylglycerol biosynthesis; CDP-diacylglycerol from sn-glycerol 3-phosphate: step 1/3., similarity:Belongs to the 1-acyl-sn-glycerol-3-phosphate acyltransferase family., tissue specificity:Widely expressed. Expressed in liver, kidney, testis, brain, heart, skeletal muscle, thyroid, prostate, thymus and placenta.

#### Background

This gene encodes a member of the lysophosphatidic acid acyltransferase protein family. The encoded protein is an enzyme which catalyzes the conversion of glycerol-3-phosphate to lysophosphatidic acid in the synthesis of triacylglycerol. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Jan 2012],

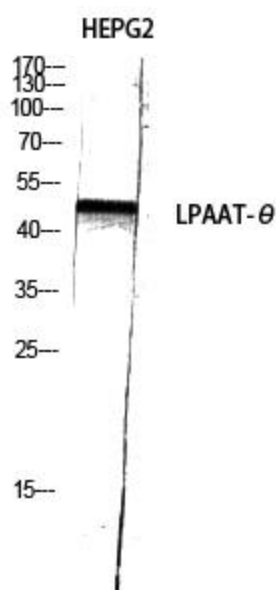
#### matters needing attention

Avoid repeated freezing and thawing!

#### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

### Products Images



Western Blot analysis of various cells using LPAAT-θ Monoclonal Antibody