



## PLCA Monoclonal Antibody

| Catalog No         | BYmab-05214   |
|--------------------|---|
| Isotype            | lgG   |
| Reactivity         | Human;Mouse   |
| Applications       | WB  |
| Gene Name          | AGPAT1 G15  |
| Protein Name       | 1-acyl-sn-glycerol-3-phosphate acyltransferase alpha (EC 2.3.1.51)<br>(1-acylglycerol-3-phosphate O-acyltransferase 1) (1-AGP acyltransferase 1)<br>(1-AGPAT 1) (Lysophosphatidic acid acyltransferase alpha)   |
| Immunogen          | Synthesized peptide derived from human protein . at AA range: 150-230   |
| Specificity        | PLCA Monoclonal Antibody detects endogenous levels of protein.  |
| Formulation        | Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.  |
| Source             | Monoclonal, Mouse,IgG   |
| Purification       | The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.  |
| Dilution           | WB 1:500-2000   |
| Concentration      | 1 mg/ml   |
| Purity             | ≥90%  |
| Storage Stability  | -20°C/1 year  |
| Synonyms           |   |
| Observed Band      | 31kD  |
| Cell Pathway       | Endoplasmic reticulum membrane ; Multi-pass membrane protein .  |
| Tissue Specificity | Widely expressed. Expressed in adipose tissue and at high levels in testis and pancreas. Expressed at lower levels in tissues such as heart, brain, placenta, kidney, lung, spleen, thymus, prostate, ovary, intestine, colon, leukocyte and liver.   |
| Function           | catalytic activity:Acyl-CoA + 1-acyl-sn-glycerol 3-phosphate = CoA + 1,2-diacyl-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.,function:Converts lysophosphatidic acid (LPA) into phosphatidic acid by incorporating an acyl moiety at the sn-2 position of the glycerol backbone.,pathway:Phospholipid metabolism; CDP-diacylglycerol biosynthesis; CDP-diacylglycerol from sn-glycerol 3-phosphate: step 2/3.,similarity:Belongs to the 1-acyl-sn-glycerol-3-phosphate acyltransferase family., |

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| Background                | This gene encodes an enzyme that converts lysophosphatidic acid (LPA) into phosphatidic acid (PA). LPA and PA are two phospholipids involved in signal transduction and in lipid biosynthesis in cells. This enzyme localizes to the  |
|---------------------------|---|
|                           | endoplasmic reticulum. This gene is located in the class III region of the human major histocompatibility complex. Alternative splicing results in two transcript variants encoding the same protein. [provided by RefSeq, Jul 2008], |
| 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 PLCA Monoclonal Antibody

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