



# LPCT4 Polyclonal Antibody

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| Catalog No         | BYab-21433                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Isotype            | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Reactivity         | Human;Rat;Mouse;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Applications       | WB;ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Gene Name          | LPCAT4 AGPAT7 AYTL3 LPEAT2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Protein Name       | Lysophospholipid acyltransferase LPCAT4 (EC 2.3.1.-)<br>(1-acylglycerol-3-phosphate O-acyltransferase 7) (1-AGP acyltransferase 7)<br>(1-AGPAT 7) (Acyltransferase-like 3) (Lysophosphatidylcholine acyltransf                                                                                                                                                                                                                                                                                                                                                                              |
| Immunogen          | Synthesized peptide derived from human protein . at AA range: 300-380                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Specificity        | LPCT4 Polyclonal Antibody detects endogenous levels of protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Formulation        | Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Source             | Polyclonal, Rabbit,IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Purification       | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Dilution           | WB 1:500-2000 ELISA 1:5000-20000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Concentration      | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Purity             | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Storage Stability  | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Synonyms           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Observed Band      | 57kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Cell Pathway       | Endoplasmic reticulum membrane ; Multi-pass membrane protein .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Tissue Specificity | Widely expressed with predominant level in brain.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Function           | caution:Was originally (PubMed:16243729) thought to be a lysophosphatidic acid acyltransferase based on sequence similarity but the mouse ortholog has been shown to be a lysophosphatidylcholine acyltransferase.,function:Converts lysophosphatidylcholine (LPC) to phosphatidylcholine in the presence of acyl-CoA.,pathway:Lipid metabolism; phospholipid metabolism.,similarity:Belongs to the 1-acyl-sn-glycerol-3-phosphate acyltransferase family.,tissue specificity:Widely expressed. Expressed in uterus, thymus, pancreas, skeletal muscle, bladder, stomach, lung and testis., |
| Background         | Members of the 1-acylglycerol-3-phosphate O-acyltransferase (EC 2.3.1.51) family, such as AGPAT7, catalyze the conversion of lysophosphatidic acid (LPA)                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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to phosphatidic acid (PA), a precursor in the biosynthesis of all glycerolipids. Both LPA and PA are involved in signal transduction (Ye et al., 2005 [PubMed 16243729]).[supplied by OMIM, May 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**