

**LPCAT3 polyclonal antibody**

Catalog: BS80165

Host: Rabbit

Reactivity: Human, Mouse, Rat

**BackGround:**

Lysophospholipid O-acyltransferase (LPLAT that catalyzes the reacylation step of the phospholipid remodeling process also known as the Lands cycle. Catalyzes transfer of the fatty acyl chain from fatty acyl-CoA to 1-acyl lysophospholipid to form various classes of phospholipids. Converts 1-acyl lysophosphatidylcholine (LPC into phosphatidylcholine (PC (LPCAT activity, 1-acyl lysophosphatidylserine (LPS into phosphatidylserine (PS (LPSAT activity and 1-acyl lysophosphatidylethanolamine (LPE into phosphatidylethanolamine (PE (LPEAT activity. Favors polyunsaturated fatty acyl-CoAs as acyl donors compared to saturated fatty acyl-CoAs. Has higher activity for LPC acyl acceptors compared to LPEs and LPSs. Can also transfer the fatty acyl chain from fatty acyl-CoA to 1-O-alkyl lysophospholipid or 1-O-alkenyl lysophospholipid with lower efficiency (By similarity. Acts as a major LPC O-acyltransferase in liver and intestine. As a component of the liver X receptor/NR1H3 or NR1H2 signaling pathway, mainly catalyzes the incorporation of arachidonate into PCs of endoplasmic reticulum (ER membranes, increasing membrane dynamics and enabling triacylglycerols transfer to nascent very low-density lipoprotein (VLDL particles.

**Product:**

1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

**Molecular Weight:**

56KDa

**Swiss-Prot:**

Q6P1A2

**Purification&Purity:**

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

**Applications:**

WB, 1:500 - 1:2000

**Storage&Stability:**

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

**Modification:**

Unmodification

**DATA:**

Western blot analysis of various lysates, using LPCAT3 antibody at 1:560 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG at 1:10000 dilution.  
Lysates/proteins: 25ug per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit.  
Exposure time: 30s.

**Note:**

For research use only, not for use in diagnostic procedure.

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