10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-LPAAT gamma Antibody

Catalog # AP60847

Product Information

Application	WB, IF/IC
Primary Accession	Q9NRZ7
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43381

Additional Information

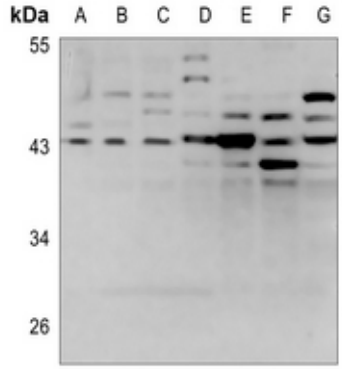
Gene ID	56894
Other Names	LPAAT3; 1-acyl-sn-glycerol-3-phosphate acyltransferase gamma; 1-acylglycerol-3-phosphate O-acyltransferase 3; 1-AGP acyltransferase 3; 1-AGPAT 3; Lysophosphatidic acid acyltransferase gamma; LPAAT-gamma
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human LPAAT gamma. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/2000) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

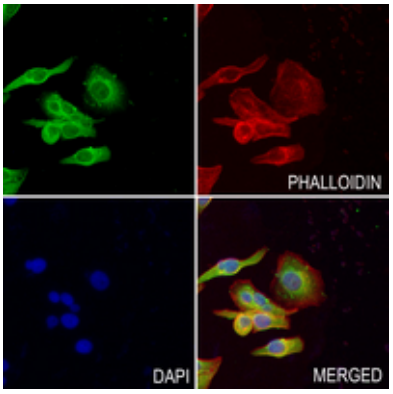
Name	AGPAT3
Synonyms	LPAAT3
Function	Converts 1-acyl-sn-glycerol-3-phosphate (lysophosphatidic acid or LPA) into 1,2-diacyl-sn-glycerol-3-phosphate (phosphatidic acid or PA) by incorporating an acyl moiety at the sn-2 position of the glycerol backbone (PubMed:21173190). Acts on LPA containing saturated or unsaturated fatty acids C16:0-C20:4 at the sn-1 position using C18:1, C20:4 or C18:2-CoA as the acyl donor (PubMed:21173190). Also acts on lysophosphatidylcholine, lysophosphatidylinositol and lysophosphatidylserine using C18:1 or C20:4-CoA (PubMed:21173190). Has a preference for arachidonoyl-CoA as a donor (By similarity). Also has a modest lysophosphatidylinositol acyltransferase (LPIAT) activity, converts lysophosphatidylinositol (LPI) into phosphatidylinositol (By similarity).

Cellular Location	Endoplasmic reticulum membrane; Multi-pass membrane protein. Nucleus envelope
Tissue Location	Widely expressed with highest levels in testis, pancreas and kidney, followed by spleen, lung, adipose tissue and liver.

Images



Western blot analysis of LPAAT gamma expression in HEK293T (A), A549 (B), H446 (C), mouse kidney (D), mouse liver (E), rat kidney (F), rat liver (G) whole cell lysates. (Predicted band size: 43 kD; Observed band size: 43 kD)



Immunofluorescent analysis of LPAAT gamma staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.