Anti-Pnpla3/Adiponutrin antibody

Model STJ71499
Host Goat
Reactivity Human, Mouse, Rat
Applications ELISA, IHC, WB
Immunogen Region Internal
Gene ID 80339
Gene Symbol Pnpla3
Dilution range ELISA-antibody detection limit dilution 1:16000. WB-Approx 45kDa band observed in Mouse Adrenal Gland lysates, and also in preliminary testing of Mouse and Human Kidney and Rat Adrenal Gland lysate. Recommended concentration: 0.01-0.03µg/ml. Primary incubation 1 hour at room temperature. IHC-Paraffin embedded Human Kidney. Recommended concentration: 8µg/ml.
Specificity This antibody is raised against a peptide derived from the Mouse protein sequence and this peptide differs from Human only in position 2.
Purification Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Note FOR RESEARCH USE ONLY (RUO).
Protein Name 1-Acylglycerol-3-Phosphate O-Acyltransferase Pnpla3/Acylglycerol Transacylase/Adiponutrin/AdpnCalcium-Independent Phospholipase A2-EpsilonIpla2-EpsilonLysophosphatidic Acid Acyltransferase/Patatin-Like Phospholipase Domain-Containing Protein 3
Clonality Polyclonal
Conjugation Unconjugated
Formulation Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5%
bovine serum albumin.

**Concentration**  
0.5 mg/ml

**Storage Instruction**  
Store at -20°C and avoid freeze-thaw cycles.

**Database Links**  
Reactome:R-MMU-1482883

**Alternative Names**  
Anti-1-Acylglycerol-3-Phosphate O-Acyltransferase Pnpla3 antibody  
Anti-Acylglycerol Transacylase antibody  
Anti-Adiponutrin antibody  
Anti-Adiponutrin antibody  
Anti-Calcium-Independent Phospholipase A2-Epsilon antibody  
Anti-Ipla2-Epsilon antibody  
Anti-Lysophosphatidic Acid Acyltransferase antibody  
Anti-Patatin-Like Phospholipase Domain-Containing Protein 3 antibody  
Anti-PNPLA3 ADPN C22orf20 antibody

**Function**  
Specifically catalyzes coenzyme A (CoA)-dependent acylation of 1-acyl-sn-glycerol 3-phosphate (2-lysophosphatidic acid/LPA) to generate phosphatidic acid (PA), an important metabolic intermediate and precursor for both triglycerides and glycerophospholipids. Does not esterify other lysophospholipids. Acyl donors are long chain (at least C16) fatty acyl-CoAs: arachidonoyl-CoA, linoleoyl-CoA, oleoyl-CoA and at a lesser extent palmitoyl-CoA. Additionally possesses low triacylglycerol lipase and CoA-independent acylglycerol transacylase activities and thus may play a role in acyl-chain remodeling of triglycerides.

**Cellular Localization**  
Membrane  
Single-Pass Type II Membrane Protein  
Lipid Droplet

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