

Goat Anti-PNPLA3 / Adiponutrin Antibody
Peptide-affinity purified goat antibody
Catalog # AF1845a**Specification**

Goat Anti-PNPLA3 / Adiponutrin Antibody - Product Information

Application	WB, IHC, E
Primary Accession	O9NST1
Other Accession	NP_473429 , 80339 , 116939 (mouse) , 362972 (rat)
Reactivity	Human, Mouse
Predicted	Rat, Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	52865

Goat Anti-PNPLA3 / Adiponutrin Antibody - Additional Information**Gene ID** 80339**Other Names**

Patatin-like phospholipase domain-containing protein 3, 3.1.1.3, Acylglycerol O-acyltransferase, 2.3.1.-, Adiponutrin, Calcium-independent phospholipase A2-epsilon, iPLA2-epsilon, PNPLA3, ADPN, C22orf20

Dilution

WB~~1:1000
IHC~~1:100~500
E~~N/A

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-PNPLA3 / Adiponutrin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-PNPLA3 / Adiponutrin Antibody - Protein Information**Name** PLPL3

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 (PubMed:22560221). Additionally possesses low triacylglycerol lipase and CoA-independent acylglycerol transacylase activities and thus may play a role in acyl-chain remodeling of triglycerides (PubMed:15364929, PubMed:20034933, PubMed:22560221). In vitro may express hydrolytic activity against glycerolipids triacylglycerol, diacylglycerol and monoacylglycerol, with a strong preference for oleic acid as the acyl moiety (PubMed:21878620). However, the triacylglycerol hydrolase activity is controversial and may be very low (PubMed:22560221). Possesses phospholipase A2 activity (PubMed:15364929).

Cellular Location

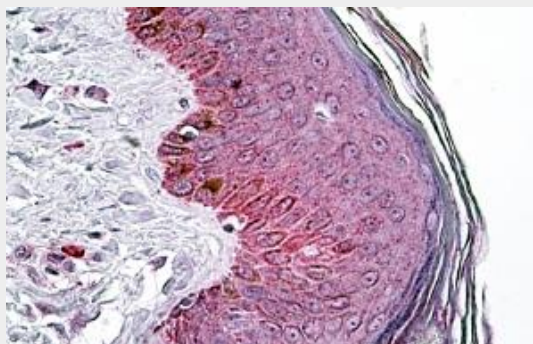
Membrane; Single-pass type II membrane protein. Lipid droplet

Goat Anti-PNPLA3 / Adiponutrin Antibody - Protocols

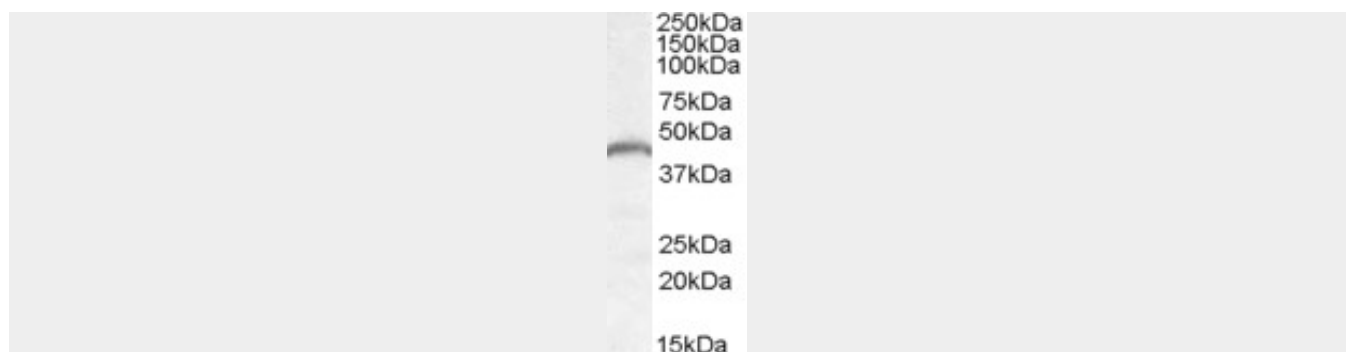
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-PNPLA3 / Adiponutrin Antibody - Images



AF1845a (3.8 µg/ml) staining of paraffin embedded Human Skin. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



AF1845a (0.05 µg/ml) staining of Mouse Heart lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.