

PNPLA3 / Adiponutrin Antibody (Internal)
Goat Polyclonal Antibody
Catalog # ALS14243**Specification****PNPLA3 / Adiponutrin Antibody (Internal) - Product Information**

Application	WB, IHC-P, E
Primary Accession	Q9NST1
Reactivity	Human, Mouse, Rat, Rabbit, Hamster
Host	Goat
Clonality	Polyclonal
Calculated MW	53kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A E~~N/A

PNPLA3 / Adiponutrin Antibody (Internal) - 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

Target/Specificity

Human PNPLA3. This antibody is raised against a peptide derived from the Mouse protein sequence and this peptide differs from Human only in position 2.

Reconstitution & Storage

Store at -20°C. Minimize freezing and thawing.

Precautions

PNPLA3 / Adiponutrin Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

PNPLA3 / Adiponutrin Antibody (Internal) - 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

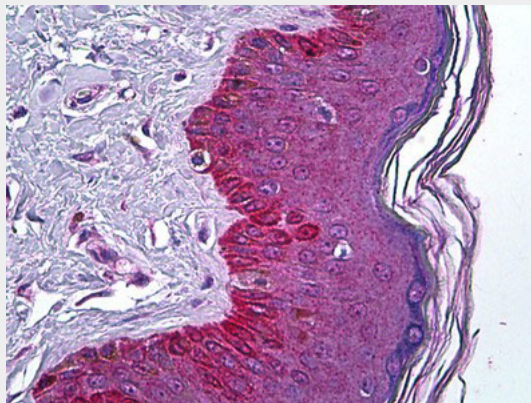
Membrane; Single-pass type II membrane protein. Lipid droplet

PNPLA3 / Adiponutrin Antibody (Internal) - 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](#)

PNPLA3 / Adiponutrin Antibody (Internal) - Images



Anti-PNPLA3 antibody IHC of human skin.



Antibody (0.05 ug/ml) staining of mouse heart lysate (35 ug protein in RIPA buffer).

PNPLA3 / Adiponutrin Antibody (Internal) - Background

Multifunctional enzyme which has both triacylglycerol lipase and acylglycerol O-acyltransferase activities.

PNPLA3 / Adiponutrin Antibody (Internal) - References

- Collins J.E.,et al.Genome Res. 13:27-36(2003).
Collins J.E.,et al.Genome Biol. 5:R84.1-R84.11(2004).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Dunham I.,et al.Nature 402:489-495(1999).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.