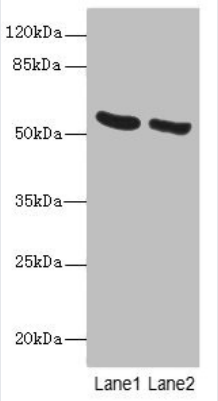
PNPLA2 Antibody – Rabbit Polyclonal

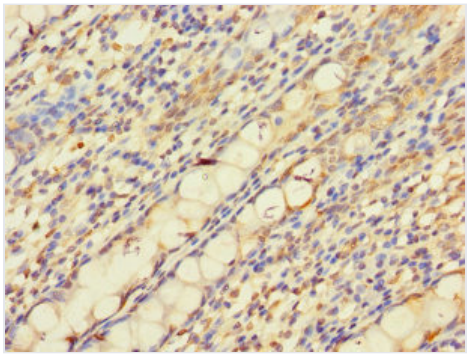
PRODUCT OVERVIEW

Product Name	PNPLA2, Polyclonal Antibody
Full Product Name	PNPLA2 Antibody
Product Gene Name	anti-PNPLA2 antibody
Product Synonym Names	Patatin-like phospholipase domain-containing protein 2 (EC 3.1.1.3) (Adipose triglyceride lipase) (Calcium-independent phospholipase A2) (Desnutrin) (IPLA2- zeta) (Pigment epithelium-derived factor) (TTS2.2) (Transport-secretion protein 2) (TTS2), PNPLA2, ATGL
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: PNPLA2 (MBS7001887) HRP Conjugated Antibody: PNPLA2 (MBS7000676)
Matching Pairs	Unconjugated Antibody: PNPLA2 (MBS7001887) Biotin Conjugated Antibody: PNPLA2 (MBS7001111)
Matching Pairs	Unconjugated Antibody: PNPLA2 (MBS7001887) FITC Conjugated Antibody: PNPLA2 (MBS7002396)
OMIM	609059
3D Structure	ModBase 3D Structure for Q96AD5
Immunogen	Recombinant Human Patatin-like phospholipase domain-containing protein 2 protein (1-504AA)
Conjugate	Non-conjugated
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Species	Homo sapiens (Human)
Research Area	Cardiovascular
Target Names	PNPLA2
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PNPLA2 antibody	ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-PNPLA2 antibody	WB: 1:1000-1:5000 IHC:1:20-1:200 IF:1:50-1:200

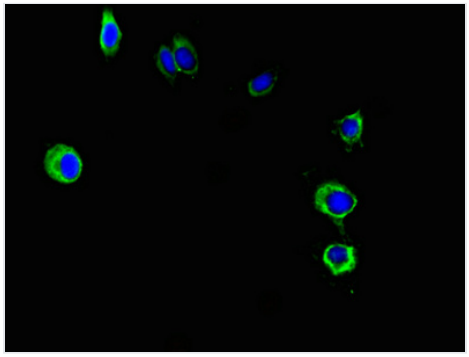
Related Product Information for anti-PNPLA2 antibody	Catalyzes the initial step in triglyceride hydrolysis in adipocyte and non-adipocyte lipid droplets (PubMed:15550674). Also has acylglycerol transacylase activity. May act coordinately with LIPE/HLS within the lipolytic cascade. Regulates adiposome size and may be involved in the degradation of adiposomes (PubMed:16239926). May play an important role in energy homeostasis. May play a role in the response of the organism to starvation, enhancing hydrolysis of triglycerides and providing free fatty acids to other tissues to be oxidized in situations of energy depletion.
Other Notes	Small volumes of anti-PNPLA2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PNPLA2 purchase	MBS7001887 is an antibody targeting PNPLA2. Also known as PNPLA2 Antibody. Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-PNPLA2 antibody
Western blotAll lanes: PNPLA2 antibody at 10ug/mlLane 1: Mouse liver tissueLane 2: NIH/3T3 whole cell lysateSecondaryGoat polyclonal to rabbit IgG at 1/10000 dilutionPredicted band size: 56,20 kDaObserved band size: 56 kDa



Immunohistochemistry (IHC) of anti-PNPLA2 antibody
Immunohistochemistry of paraffin-embedded human colon tissue using MBS7001887 at dilution of 1:100



Immunohistochemistry (IHC) of anti-PNPLA2 antibody
Immunofluorescent analysis of HeLa cells using MBS7001887 at a dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PNPLA2. It may not necessarily be applicable to this product.

NCBI GI #	32698724
NCBI GeneID	57104
NCBI Accession #	NP_065109.1
UniProt Primary Accession #	Q96AD5
UniProt Secondary Accession #	O60643; Q5EFF5; Q6XYE5; Q96ET6; Q9NQ61; Q9NQ62
UniProt Related Accession #	Q96AD5
GenBank Nucleotide #	NM_020376.3

NCBI Official Full Name	patatin-like phospholipase domain-containing protein 2
NCBI Official Synonym Full Names	patatin like phospholipase domain containing 2
NCBI Official Symbol	PNPLA2
NCBI Official Synonym Symbols	ATGL; TTS2; PEDF-R; FP17548; TTS-2.2; iPLA2zeta; 1110001C14Rik
UniProt Protein Name	Patatin-like phospholipase domain-containing protein 2
UniProt Synonym Protein Names	Adipose triglyceride lipase; Calcium-independent phospholipase A2; Desnutrin; IPLA2-zeta; Pigment epithelium-derived factor; TTS2.2; Transport-secretion protein 2; TTS2
Protein Family	Patatin-like phospholipase domain-containing protein
UniProt Gene Name	PNPLA2
UniProt Synonym Gene Names	ATGL; TTS2
UniProt Entry Name	PLPL2_HUMAN
NCBI Protein Information	patatin-like phospholipase domain-containing protein 2
NCBI Summary for PNPLA2	This gene encodes an enzyme which catalyzes the first step in the hydrolysis of triglycerides in adipose tissue. Mutations in this gene are associated with neutral lipid storage disease with myopathy. [provided by RefSeq, Jul 2010]
UniProt Comments for PNPLA2	PNPLA2: the rate-limiting lipolytic enzyme in mammals, flies, and yeast. Catalyzes the initial step in triglyceride hydrolysis in adipocyte and non-adipocyte lipid droplets. Upregulated by exercise training in human skeletal muscle. Has acylglycerol transacylase activity. May act coordinately with HSL within the lipolytic cascade. Regulates adiposome size and may be involved in the degradation of adiposomes. May play an important role in energy homeostasis. May play a role in the response of the organism to starvation, enhancing hydrolysis of triglycerides and providing free fatty acids to other tissues to be oxidized in situations of energy depletion. Interacting with ABHD5 stimulates its triglyceride hydrolase activity. Despite a colocalization in lipid droplets, it probably does not interact with perilipin. Transcriptionally regulated by FOXO1A. Defects cause neutral lipid storage disease (NLSD), an autosomal recessive disorder characterized by the excessive accumulation of neutral lipids in multiple tissues. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Lipase; Membrane protein, integral; EC 3.1.1.3 Chromosomal Location of Human Ortholog: 11p15.5 Cellular Component: cytosol; endoplasmic reticulum membrane; integral to membrane; lipid particle; plasma membrane Molecular Function: triacylglycerol lipase activity Biological Process: glycerophospholipid biosynthetic process; phospholipid metabolic process; sequestering of lipid; triacylglycerol catabolic process Disease: Neutral Lipid Storage Disease With Myopathy
Research Articles on PNPLA2	**1.** PLIN5 was significantly colocated with ATGL, mitochondria and CGI-58, indicating a close association between the key lipolytic effectors in resting skeletal muscle.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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