

Rabbit anti-Human PNPLA2 Polyclonal Antibody | anti-PNPLA2 antibody

PNPLA2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327411	Rabbit	Human	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

PNPLA2; Polyclonal Antibody; PNPLA2 Antibody; 1110001C14Rik; Adipose triglyceride lipase; ATGL; ATGL DESNUTRIN; Calcium independent phospholipase A2; Calcium-independent phospholipase A2; Desnutrin; EC 3.1.1.3; FP17548; IPLA2 zeta; IPLA2-zeta; Mutant patatin like phospholipase domain containing 2; Patatin like phospholipase domain containing 2; PATATIN LIKE PHOSPHOLIPASE DOMAIN CONTAINING PROTEIN 2; Patatin-like phospholipase domain-containing protein 2; PEDF R; PHOSPHOLIPASE A2 CALCIUM INDEPENDENT ZETA; Pigment epithelium derived factor; Pigment epithelium-derived factor; plpl; plpl2; PLPL2_HUMAN; Pnpla2; Transport secretion protein 2; Transport secretion protein 2.2; Transport-secretion protein 2; Triglyceride hydrolase; TTS 2.2; TTS2; TTS2.2; ZETA; anti-PNPLA2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	PNPLA2 antibody detects endogenous levels of total PNPLA2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	504
Applicable Applications for anti-PNPLA2 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PNPLA2
Subcellular Location	Lipid Droplet. Cell Membrane.
Tissue Specificity	Highest expression in adipose tissue. Also detected in heart, skeletal muscle, and portions of the gastrointestinal tract. Detected in normal retina and retinoblastoma cells. Detected in retinal pigment epithelium and, at lower intensity, in the inner segments of photoreceptors and in the ganglion cell layer of the neural retina (at protein level).
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of PNPLA2 using K562 whole cell lysates



IF (Immunofluorescence)
AAA327411 staining HepG2 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



IHC (Immunohistochemistry)
AAA327411 at 1/100 staining Human liver cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-PNPLA2 antibody	Function: 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. Subunit Structure: Interacts with ABHD5; this association stimulates PNPLA2 triglyceride hydrolase activity (By similarity). Interacts with SERPINF1; interacts at one site of interaction. Despite a colocalization in lipid droplets, it probably does not interact with PLIN (By similarity). Interacts with PLIN5; prevents interaction with ABHD5 (By similarity). Interacts with FAF2 (PubMed:23297223). Post-translational Modifications: Phosphorylation at Ser-404 by PKA is increased during fasting and moderate intensity exercise, and moderately increases lipolytic activity (By similarity). Phosphorylation at Ser-404 is increased upon beta-adrenergic stimulation.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	32698724
NCBI GeneID	57104
NCBI Accession #	NP_065109.1
NCBI GenBank Nucleotide #	NM_020376.3
UniProt Accession #	Q96AD5; O60643; Q5EFF5; Q6XYE5; Q96ET6; Q9NQ61; Q9NQ62
Molecular Weight	Observed: 54 kDa Predicted: 56 kDa
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
NCBI Protein Information	patatin-like phospholipase domain-containing protein 2
UniProt Protein Name	Patatin-like phospholipase domain-containing protein 2

UniProt Gene Name	PNPLA2
UniProt Synonym Gene Names	ATGL; TTS2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pnpla2-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/327411>