

Rabbit LPIN1 Polyclonal Antibody | anti-LPIN1 antibody

Phospho-LPIN1 (Thr14) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA328271	Rabbit	Human, Mouse, Rat Predicted: Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

LPIN1; Polyclonal Antibody; Phospho-LPIN1 (Thr14) Antibody; EC=3.1.3.4; KIAA0188; Lipin-1; Lpin1; LPIN1_HUMAN; PAP1; Phosphatidate phosphatase LPIN1; anti-LPIN1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted: Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-LPIN1(Thr14) Antibody detects endogenous levels of LPIN1 only when phosphorylated at Thr14.
Purity/Purification	Purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
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	975
Applicable Applications for anti-LPIN1 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human LPIN1 around the phosphorylation site of Thr14.
Tissue Specificity	Specifically expressed in skeletal muscle. Also abundant in adipose tissue. Lower levels in some portions of the digestive tract.
Subcellular Location	Endoplasmic Reticulum; Cytosol; Nucleus
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of Phospho-LPIN1(Thr14) in lysates of K562, using Phospho-LPIN1(Thr14) Antibody.



IHC (Immunohistochemistry)

At 1/100 staining mouse kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue 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



IHC (Immunohistochemistry)

At 1/100 staining rat kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue 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



IHC (Immunohistochemistry)

At 1/100 staining human kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue 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-LPIN1 antibody

Description: Plays important roles in controlling the metabolism of fatty acids at different levels. Acts as a magnesium-dependent phosphatidate phosphatase enzyme which catalyzes the conversion of phosphatidic acid to diacylglycerol during triglyceride, phosphatidylcholine and phosphatidylethanolamine biosynthesis in the reticulum endoplasmic membrane. Acts also as a nuclear transcriptional coactivator for PPARGC1A/PPARA to modulate lipid metabolism gene expression (By similarity). Is involved in adipocyte differentiation. May also be involved in mitochondrial fission by converting phosphatidic acid to diacylglycerol (By similarity).

Post Translational Modifications: Phosphorylated at multiple sites in response to insulin. Phosphorylation is controlled by the mTOR signaling pathway. Phosphorylation is decreased by epinephrine. Phosphorylation may not directly affect the catalytic activity but may regulate the localization. Dephosphorylated by the CTDNEP1-CNEP1R1 complex (By similarity). Sumoylated.

Subunit Structure: Interacts (via LXXIL motif) with PPARA. Interacts with PPARGC1A. Interaction with PPARA and PPARGC1A leads to the formation of a complex that modulates gene transcription. Interacts with MEF2C.

Similarity: Contains one Leu-Xaa-Xaa-Ile-Leu (LXXIL), a transcriptional binding motif, which mediates interaction with PPARA. Contains 1 Asp-Xaa-Asp-Xaa-Thr (DXDXT) motif, a catalytic motif essential for phosphatidate phosphatase activity. Belongs to the lipin family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	387528013
NCBI GeneID	23175
NCBI Accession #	NP_001248357
NCBI GenBank Nucleotide #	NP_001248357.1
UniProt Accession #	Q14693
Molecular Weight	Observed: 99 kDa Predicted: 99 kDa
NCBI Official Full Name	phosphatidate phosphatase LPIN1 isoform 3
NCBI Official Synonym Full Names	lipin 1
NCBI Official Symbol	LPIN1
NCBI Official Synonym Symbols	PAP1
NCBI Protein Information	phosphatidate phosphatase LPIN1
UniProt Protein Name	Phosphatidate phosphatase LPIN1
UniProt Gene Name	LPIN1
UniProt Synonym Gene Names	KIAA0188
UniProt Entry Name	LPIN1_HUMAN

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/lpin1-antibody-peptide-elisa-immunohistochemistry-western-blot-elisa/328271>