

LPIN1 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP5052b**Specification**

LPIN1 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q14693](#)**LPIN1 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 23175**Other Names**

Phosphatidate phosphatase LPIN1, Lipin-1, LPIN1, KIAA0188

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

LPIN1 Antibody (C-term) Blocking Peptide - Protein Information**Name** LPIN1 ([HGNC:13345](#))**Synonyms** KIAA0188**Function**

Acts as a magnesium-dependent phosphatidate phosphatase enzyme which catalyzes the conversion of phosphatidic acid to diacylglycerol during triglyceride, phosphatidylcholine and phosphatidylethanolamine biosynthesis and therefore controls the metabolism of fatty acids at different levels (PubMed: <http://www.uniprot.org/citations/20231281> target="_blank">20231281, PubMed: <http://www.uniprot.org/citations/29765047> target="_blank">29765047). Is involved in adipocyte differentiation (By similarity). Acts also as nuclear transcriptional coactivator for PPARGC1A/PPARA regulatory pathway to modulate lipid metabolism gene expression (By similarity). Recruited at the mitochondrion outer membrane and is involved in mitochondrial fission by converting phosphatidic acid to diacylglycerol (By similarity).

Cellular Location

Cytoplasm, cytosol. Endoplasmic reticulum membrane. Nucleus membrane {ECO:0000250|UniProtKB:Q91ZP3}. Note=Translocates from the cytosol to the endoplasmic reticulum following acetylation by KAT5

Tissue Location

Specifically expressed in skeletal muscle. Also abundant in adipose tissue. Lower levels in some portions of the digestive tract.

LPIN1 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

LPIN1 Antibody (C-term) Blocking Peptide - Images

LPIN1 Antibody (C-term) Blocking Peptide - Background

LPIN1 represents a candidate gene for human lipodystrophy, characterized by loss of body fat, fatty liver, hypertriglyceridemia, and insulin resistance. Mouse studies suggest that this gene functions during normal adipose tissue development and may also play a role in human triglyceride metabolism.

LPIN1 Antibody (C-term) Blocking Peptide - References

Medland, S.E., et al. Am. J. Hum. Genet. 85(5):750-755(2009)Donkor, J., et al. J. Biol. Chem. 284(43):29968-29978(2009)Ishimoto, K., et al. J. Biol. Chem. 284(33):22195-22205(2009)