

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

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**LPIN1 Antibody (C-term) Blocking Peptide - Product Information**Primary 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</a>, PubMed: <http://www.uniprot.org/citations/29765047> target="\_blank">29765047</a>). 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)