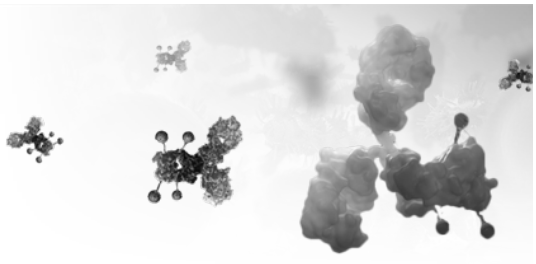

Human LPIN1 peptide (DAG-P1623)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	This gene encodes a magnesium-ion-dependent phosphatidic acid phosphohydrolase enzyme that catalyzes the penultimate step in triglyceride synthesis including the dephosphorylation of phosphatidic acid to yield diacylglycerol. Expression of this gene is required for adipocyte differentiation and it also functions as a nuclear transcriptional coactivator with some peroxisome proliferator-activated receptors to modulate expression of other genes involved in lipid metabolism. Mutations in this gene are associated with metabolic syndrome, type 2 diabetes, and autosomal recessive acute recurrent myoglobinuria (ARARM). This gene is also a candidate for several human lipodystrophy syndromes. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Additional splice variants have been described but their full-length structures have not been determined. [provided by RefSeq, May 2012]
Specificity	Abundant in adipose tissue and skeletal muscle. Lower levels in some portions of the digestive tract.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the lipin family.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	LPIN1 lipin 1 [Homo sapiens (human)]

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Official Symbol	LPIN1
Synonyms	LPIN1; lipin 1; PAP1; phosphatidate phosphatase LPIN1; lipin-1;
Entrez Gene ID	23175
mRNA Refseq	NM_001261427.1
Protein Refseq	NP_001248356.1
UniProt ID	Q14693
Chromosome Location	2p25.1
Pathway	Adipogenesis, organism-specific biosystem; Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; Glycerolipid metabolism, organism-specific biosystem; Glycerolipid metabolism, conserved biosystem; Glycerophospholipid biosynthesis, organism-specific biosystem; Glycerophospholipid metabolism, organism-specific biosystem; Glycerophospholipid metabolism, conserved biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-speci
Function	molecular_function; phosphatidate phosphatase activity;

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