

Recombinant Full Length Human LPIN1 Protein, C-Flag-tagged

Cat. No. LPIN1-1448HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human LPIN1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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, acute recurrent rhabdomyolysis, and autosomal recessive acute recurrent myoglobinuria (ARARM). This gene is also a candidate for several human lipodystrophy syndromes.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	98.5 kDa
AA Sequence	MNYVGQLAGQVFVTVKELYKGLNPATLSGCIDIIVIRQPNGNLQCSPFHVRFGKMGV LRSREKVV DIEIN GESVDLHMKLGDNGEAFVQETDNDQEVIPMHLATSPILSEGAS RMECQLKRGSVDRMRGLDPSTPAQVI APSETPSSSSVVKRRKRKRKSQLDSLKR DDNMNTSEDEDMFPIEMSSDEAMELLESSRTLNDIPPFQD DIPEENLSLAVIYPQS

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ASYPNSDREWSPTPSPSGSRPSTPKSDSELVSKSTERTGQKNPEMLWLWGELPQ
 AAKSSSPHKMKESSPLSSRKICDKSHFQAIHSESSDTFSDQSPTLVGGALLDQNKPPQ
 TEMQFVNEEDLET LGAAAPLLPMIEELKPPSASVVQTANKTDSPSRKRDKRSRHLG
 ADGVYLDDLTDMDPEVAALYFPKNGDP SGLAKHASDNGARSANQSPQSVGSSGV
 DSGVESTSDGLRDLPSIAISLCGGLSDHREITKDAFLEQAVSY QQFVDNPAIIDDPNL
 VVKIGSKYYNWTTAAPLLLAMQAFQKPLPKATVESIMRDKMPKKGGRWWFSWRGR
 NTTIKEESKPEQCLAGKAHSTGEQPPQLSLATRVKHESSSSDEERAAAKPSNAGHL
 PLLPNVSYKKTLRL TSEQLKSLKLKNGPNDVFSVTTQYQGTCEGTIYLWNWDD
 KVIISDIDGTITRSDTLGHILPTLGKDW THQGIAKLYHKVSQNGYKFLYCSARAIGMAD
 MTRGYLHWWNERGTVLPQGPLLLSPSSLFSAHREVIEK KPEKFKVQCLTDIKNLFF
 PNTEPFYAAFGNRPADVYSYKQVGVSLNRIFTVNPKGELVQEHAKTNISSYV
 RLCEVVDHVFLLKRSHSSDFPCSDTFSNFTFWREPLPPFENQDIHSASATRTRPLE
 QKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Full Length	Full L.

GENE INFORMATION

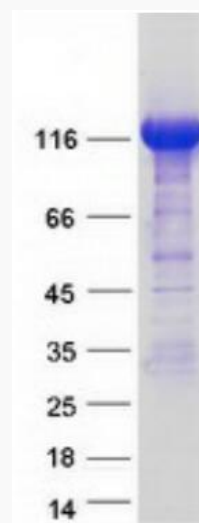
Gene Name LPIN1 lipin 1 [Homo sapiens (human)]

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Official Symbol	LPIN1
Synonyms	PAP1
Gene ID	23175
mRNA Refseq	NM_145693.4
Protein Refseq	NP_663731.1
MIM	605518
UniProt ID	Q14693



Coomassie blue staining of purified LPIN1 protein.