

## Product datasheet for PH307138

### Lipin 1 (LPIN1) (NM\_145693) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	LPIN1 MS Standard C13 and N15-labeled recombinant protein (NP_663731)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC207138
Predicted MW:	98.5 kDa
Protein Sequence:	>RC207138 representing NM_145693 Red=Cloning site Green=Tags(s)

MNYVQLAGQVFVTKELYKGLNPATLSCIDIIIVIRQPNGNLQCSPFHVRFGKMGVLRSEKVVVDIEIN  
GESVDLHMKLGDNGEAFFVQETDNDQEVIPMHLATSPILSEGASRMECQLKRGSVDRMRGLDPSTPAQVI  
APSETPSSSSVVKRRRKRKSQLDSLKRDDNMNTSEDEDMFPIEMSSDEAMELLESSERTLPNDIPPFQD  
DIPEENLSLAVIYQASYPNSDREWSPSPSGSRPSTPKSDSELVSKSTERTGQKNPEMLLWLGELPQ  
AAKSSSPHKMESSPLSSRKICDKSHFQAIHSESSDTFSDQSPTLVGGALLDQNKPTMQFVNEEDLET  
LGAAAPLLPMIEELKPPSASVVQTANKTDSRKRDKRSRHLGADGVYLLDDLTMDPEVAALYFPKNGDP  
SGLAKHASDNGARSANQSPQSVGSSGVDSGVESTSDGLRDLPSIAISLCCGGLSDHREITKDAFLQAVSY  
QQFVDNPAIIDDPNLVKIGSKYYNWTAAAPLLAMQAFQKPLPKATVESIMRDKMPKGGRRWFSWRGR  
NTTIKEESKPEQCLAGKAHSTGEQPPQLSLATRVKHESSSDEERAAAKPSNAGHLPLLPNVSYKKTLLRL  
TSEQLKSLKLNKGNPNDVVFSVTTQYQGTCEGTIYLWNWDDKVIISDIDGITRSDTLGHILPTLGKDW  
THQGIAKLYHKVSQNGYKFLYCSARAIGMADMTRGYLHWVNERGTVLPQGPLLLSPSSLFSAHREVIEWE  
KPEKFKVQCLTDIKNLFFPNTPEFYAAFGNRPADVYSYKQVGVSLNRIFTVNPKGELVQEHAKTNISSYV  
RLCEVDHVFPPLLKRSHSSDFPCSDTFSNFTFWREPLPPFENQDIHSASA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.



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RefSeq: [NP\\_663731](#)

RefSeq Size: 5363

RefSeq ORF: 2670

Synonyms: PAP1

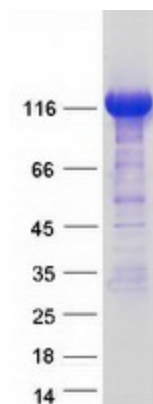
Locus ID: 23175

UniProt ID: [Q14693](#)

Cytogenetics: 2p25.1

**Summary:** 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. [provided by RefSeq, Mar 2017]

### Product images:



Coomassie blue staining of purified LPIN1 protein (Cat# [TP307138]). The protein was produced from HEK293T cells transfected with LPIN1 cDNA clone (Cat# [RC207138]) using MegaTran 2.0 (Cat# [TT210002]).