



Mouse anti-Human LPIN1 monoclonal antibody, clone 4E0 (CABT-B10587)

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

PRODUCT INFORMATION

Immunogen	LPIN1 (NP_663731, 792 a.a. ~ 891 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	Human
Clone	4E0
Conjugate	Unconjugated
Applications	WB,sELISA,ELISA
Sequence Similarities	EPFYAAFGNRPADVYSYKQVGVSLNRIFTVNPKGELVQEHAKTNISSYVRLCEVVDHVFP LLKRSHSSDFPCSDTFSNFTFWREPLPPFENQDIHSASA*
Format	Liquid
Size	100 µg
Buffer	In 1x PBS, pH 7.2
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

BACKGROUND

Introduction	This gene encodes a magnesium-ion-dependent phosphatidic acid phosphohydrolase enzyme that catalyzes the penultimate step in triglyceride synthesis including the dephosphorylation of
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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]

Keywords	LPIN1; lipin 1; PAP1; phosphatidate phosphatase LPIN1; lipin-1;
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GENE INFORMATION

Entrez Gene ID	23175
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UniProt ID	Q14693
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Pathway	Adipogenesis, organism-specific biosystem; Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; Triglyceride Biosynthesis, organism-specific biosystem
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Function	RNA polymerase II transcription factor binding; histone deacetylase binding; hydrolase activity; molecular_function; peroxisome proliferator activated receptor binding; phosphatidate phosphatase activity; transcription coactivator activity
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