

Lipin 1 Antibody

Rabbit mAb

Catalog # AP91868

Product Information

Application	WB, IHC, IF, FC, ICC, IP, IHF
Primary Accession	Q14693
Reactivity	Human
Clonality	Monoclonal
Other Names	Lipin-1; Lpin1; PAP1;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	98664

Additional Information

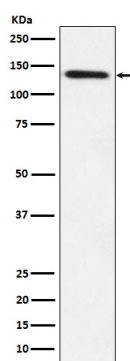
Dilution	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:30 FC 1:50
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Lipin 1
Description	Plays important roles in controlling the metabolism of fatty acids at different levels. Acts as a magnesium-dependent phosphatidate phosphatase enzyme which catalyzes the conversion of phosphatidic acid to diacylglycerol during triglyceride, phosphatidylcholine and phosphatidylethanolamine biosynthesis in the reticulum endoplasmic membrane.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

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: 20231281 , PubMed: 23426360 , PubMed: 29765047 , PubMed: 31695197). Is involved in adipocyte differentiation (By similarity). Recruited at the mitochondrion outer membrane and is involved in mitochondrial fission by converting phosphatidic acid to diacylglycerol (By similarity). Acts also as nuclear transcriptional coactivator for PPARGC1A/PPARA regulatory pathway to modulate lipid metabolism gene expression (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.

Images



Western blot analysis of Lipin 1 expression in HepG2 cell lysate.

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