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Lipin 1 (Internal) Antibody (internal region)

Peptide-affinity purified goat antibody
Catalog # AF2537a

Specification

Lipin 1 (Internal) Antibody (internal region) - Product Information

Application	**E**
Primary Accession	Q14693
Other Accession	NP_663731.1, 23175, 14245 (mouse)
Predicted	**Human, Mouse, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**98664**

Lipin 1 (Internal) Antibody (internal region) - Additional Information

Gene ID 23175

Other Names
Phosphatidate phosphatase LPIN1, 3.1.3.4, Lipin-1, LPIN1, KIAA0188

Format
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Lipin 1 (Internal) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

Lipin 1 (Internal) Antibody (internal region) - 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:29765047). Is involved in adipocyte differentiation (By similarity). Acts also

as nuclear transcriptional coactivator for PPARGC1A/PPARA regulatory pathway to modulate lipid metabolism gene expression (By similarity). Recruited at the mitochondrion outer membrane and is involved in mitochondrial fission by converting phosphatidic acid to diacylglycerol (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.

Lipin 1 (Internal) Antibody (internal region) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Lipin 1 (Internal) Antibody (internal region) - Images

Lipin 1 (Internal) Antibody (internal region) - References

Cross-species analyses implicate Lipin 1 involvement in human glucose metabolism. Suviolahti E, Reue K, Cantor RM, Phan J, Gentile M, Naukkarinen J, Soro-Paavonen A, Oksanen L, Kaprio J, Rissanen A, Salomaa V, Kontula K, Taskinen MR, Pajukanta P, Peltonen L. Hum Mol Genet. 2006 Feb 1;15(3):377-86. Epub 2005 Dec 15. PMID: 16357106