

Product datasheet

Anti-Lipin 2/LPIN2 antibody ab28765

Overview

<b>Product name</b>	Anti-Lipin 2/LPIN2 antibody
<b>Description</b>	Goat polyclonal to Lipin 2/LPIN2
	<div style="border: 1px solid #ccc; background-color: #e6f2ff; padding: 10px;"> <p><span>ⓘ</span> This product is a <a href="#">fast track antibody</a>. It has been affinity purified and shows high titre values against the immunizing peptide by ELISA. <a href="#">Read the terms of use »</a></p> </div>
<b>Host species</b>	Goat
<b>Species reactivity</b>	<p><b>Predicted to work with:</b> Mouse, Rat, Human, Chimpanzee <span style="color: blue;">▲</span></p>
<b>Immunogen</b>	<p>Synthetic peptide corresponding to Human Lipin 2/LPIN2 aa 882-896 (C terminal). Sequence: (C)YWRDPIPEVDLDDL</p> <p style="text-align: right;"><a href="#">Run BLAST with</a>      <a href="#">Run BLAST with</a></p>
<b>General notes</b>	Protein previously labeled as Lipin 2.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: 0.02% Sodium Azide Constituents: 0.5% BSA, 5mg/ml Tris, pH 7.3
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	This antibody was purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

<b>Application notes</b>	This antibody gave a positive result in ELISA against the immunizing peptide.
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Antibody detection limit dilution 1:8,000.

Not yet tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

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## Target

### Function

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. Acts also as a nuclear transcriptional coactivator for PPARGC1A to modulate lipid metabolism.

### Tissue specificity

Expressed in liver, lung, kidney, placenta, spleen, thymus, lymph node, prostate, testes, small intestine, and colon.

### Involvement in disease

Defects in LPIN2 are the cause of Majeed syndrome (MAJEEDS) [MIM:609628]. An autosomal recessive syndrome characterized by chronic recurrent multifocal osteomyelitis that is of early onset with a lifelong course, congenital dyserythropoietic anemia that presents as hypochromic, microcytic anemia during the first year of life and ranges from mild to transfusion-dependent, and transient inflammatory dermatosis, often manifesting as Sweet syndrome (neutrophilic skin infiltration).

### Sequence similarities

Belongs to the lipin family.

### Domain

Contains 1 Asp-Xaa-Asp-Xaa-Thr (DXDXT) motif, a catalytic motif known to be essential for phosphatidate phosphatase activity.

Contains one Leu-Xaa-Xaa-Ile-Leu (LXXIL) motif, a motif known to be a transcriptional binding motif.

### Cellular localization

Nucleus. Cytoplasm > cytosol. Endoplasmic reticulum membrane. Translocates to endoplasmic reticulum membrane with increasing levels of oleate.

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