

## Recombinant Human AGPAT1 cell lysate

**Cat. No.** AGPAT1-36HCL    **Lot. No.** (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Description</b>	This gene encodes an enzyme that converts lysophosphatidic acid (LPA) into phosphatidic acid (PA). LPA and PA are two phospholipids involved in signal transduction and in lipid biosynthesis in cells. This enzyme localizes to the endoplasmic reticulum. This gene is located in the class III region of the human major histocompatibility complex. Alternative splicing results in two transcript variants encoding the same protein.
<b>Size</b>	100 ul
<b>Storage Buffer</b>	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
<b>Applications</b>	Western Blot;

### GENE INFORMATION

<b>Gene Name</b>	AGPAT1 1-acylglycerol-3-phosphate O-acyltransferase 1 (lysophosphatidic acid acyltransferase, alpha) [ Homo sapiens ]
<b>Official Symbol</b>	AGPAT1
<b>Synonyms</b>	AGPAT1; 1-acylglycerol-3-phosphate O-acyltransferase 1 (lysophosphatidic acid acyltransferase, alpha); 1-acyl-sn-glycerol-3-phosphate acyltransferase alpha; LPAAT

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alpha; 1-AGPAT 1; 1-AGP acyltransferase 1; lysophospholipid acyltransferase; lysophosphatidic acid acyltransferase alpha; 1-acylglycerol-3-phosphate O-acyltransferase 1 (acetoacetyl Coenzyme A thiolase); G15; LPAATA; 1-AGPAT1; LPAAT-alpha; MGC4007; MGC5423;

**Gene ID** 10554

**mRNA Refseq** NM\_006411

**Protein Refseq** NP\_006402

**MIM** 603099

**UniProt ID** Q99943

**Chromosome Location** 6p21.3

**Pathway** CDP-diacylglycerol biosynthesis I, organism-specific biosystem; CDP-diacylglycerol biosynthesis I, conserved biosystem; ChREBP activates metabolic gene expression, organism-specific biosystem; Fat digestion and absorption, organism-specific biosystem; Fat digestion and absorption, conserved biosystem; Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; Glycerolipid metabolism, organism-specific biosystem;

**Function** 1-acylglycerol-3-phosphate O-acyltransferase activity; transferase activity, transferring acyl groups;

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