

Human LPCAT1 Knockdown Cell Line (WB-Validated)



Catalog #: C65211

Aliases

LPCAT1; Lysophosphatidylcholine Acyltransferase 1; AGPAT10; AGPAT9; LPLAT8; AYTL2; Acetyl-CoA:Lyso-Platelet-Activating Factor Acetyltransferase; 1-Alkenylglycerophosphocholine O-Acyltransferase; 1-Alkylglycerophosphocholine O-Acetyltransferase; 1-Acylglycerophosphocholine O-Acyltransferase; 1-Acylglycerol-3-Phosphate O-Acyltransferase; Phosphonoformate Immuno-Associated Protein 3; Acetyl-CoA:Lyso-PAF Acetyltransferase; Lysophospholipid Acyltransferase 8; Lyso-PAF Acetyltransferase; LysoPC Acyltransferase 1; Acyltransferase-Like; LPC Acyltransferase 1; LysoPAFAT; FLJ12443; LPCAT-1; PFAAP3; Acyltransferase Like 2; EC 2.3.1.23; EC 2.3.1.51; EC 2.3.1.25; EC 2.3.1.67; Lpcat

Background

Gene Name: LPCAT1

NCBI Gene Entry: [79888](#)

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human LPCAT1 Knockdown Cell Line (Wb-Validated)
2. Wild-type cell line

Parental Cell Line

Human cell line supplied by the client

Validation Methods

RT-qPCR, Western blotting (WB)

Shipping

Shipped on Dry Ice.

Instructions For Use

This knockdown cell line should be paired with wild-type cell line for use.

Note: This product is for research use only.

Validation Data

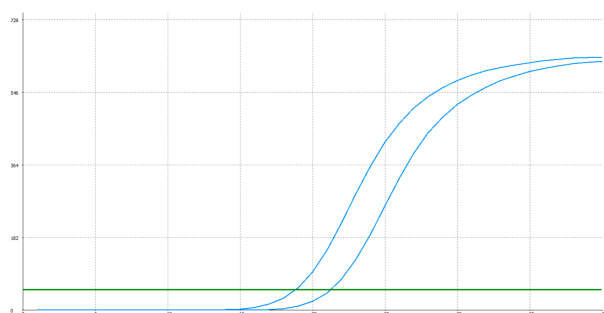
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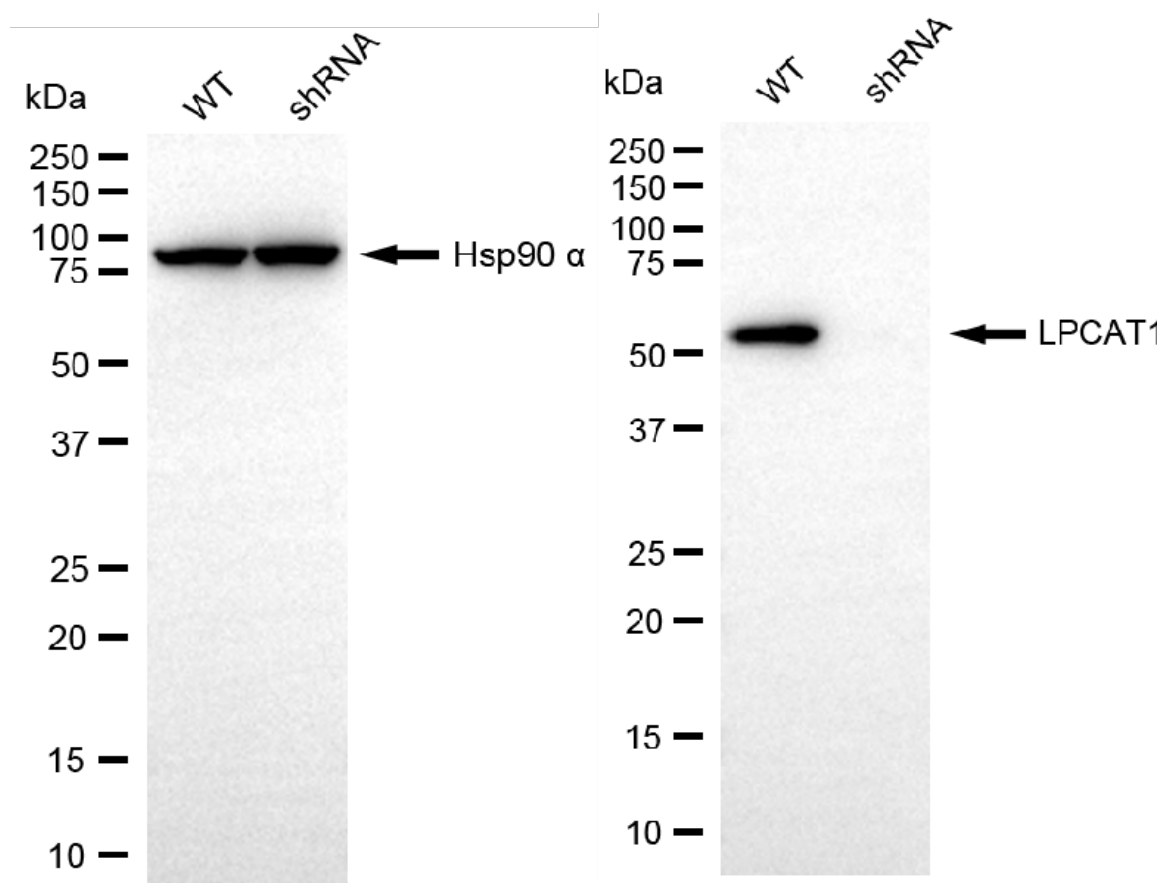
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Genotype	Ct Value
Wild-Type	18.59
Knock-Down	21.04
$\Delta Ct (Ct_{KD} - Ct_{WT})$	2.45
% mRNA Reduction	↓ 82%

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RT-qPCR analysis. HeLa cells were infected with LPCAT1-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. $\Delta Ct (Ct_{KD} - Ct_{WT})$ was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: $(1 - 1/2^{\Delta Ct}) \times 100\%$.



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Western blotting analysis. LPCAT1 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. Hsp90 α served as a loading control. The blots were incubated with primary antibodies against LPCAT1 and Hsp90 α , respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.