

# Product datasheet for LY300014

## ABCD1 Human Knockdown Lysate

## **Product data:**

#### OriGene Technologies, Inc.

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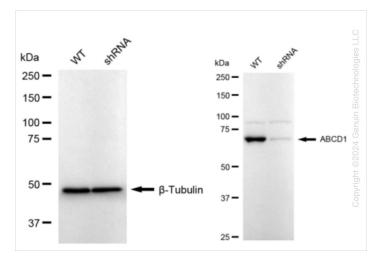
Product Type:	Knockdown Lysates
Description:	WB-validated ABCD1 Knockdown HeLa Cell Lysate
Species:	Human
Expression Host:	HeLa
Tag:	Tag Free
Synonyms:	ABCD1; ATP Binding Cassette Subfamily D Member 1; ALDP; AMN; ALD; ATP-Binding Cassette, Sub-Family D (ALD), Member 1; ATP-Binding Cassette Sub-Family D Member 1; Adrenoleukodystrophy Protein; Adrenoleukodystrophy; ADRENOLEUKODYSTROPHY; EC 3.1.2; EC 7.6.2; ABC42
Predicted MW:	83 kDa
Components:	1 vial of 100 ug WT HeLa cell lysate 1 vial of 100 ug ABCD1 KD HeLa cell lysate
Storage:	Store at -20 °C for two years.
Concentration:	Lot-specific
Buffer:	IntactProtein Cell-Tissue Lysis buffer
Locus ID:	215
UniProt ID:	<u>P33897</u>
Protein Families:	Druggable Genome
Protein Pathways:	ABC transporters



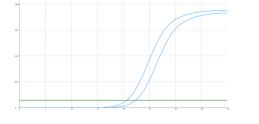
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## **Product images:**



Western blotting analysis. ABCD1 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. β-Tubulin served as a loading control. The blots were incubated with primary antibodies against ABCD1 and β-Tubulin, respectively, followed by incubating with HRPconjugated goat anti-rabbit secondary antibody. Images were developed using FeQ<sup>™</sup> ECL Substrate Kit.



	Y
Genotype	Ct Value
Wild-Type	<b>20.58</b>
Knock-Down	<b>22.22</b>
$\Delta Ct (Ct_{KD}-Ct_{WT})$	1.64 Normality
% mRNA Reduction	<b>4 68%</b>

RT-qPCR analysis. HeLa cells were infected with ABCD1-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers.  $\Delta$ Ct (CtKD-CtWT) was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: (1-1/2 $\Delta$ Ct) x 100%.

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