

# Human ABCD1 Knockdown Cell Lysate

**Cat. No.** ABCD1-014HKCL    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	WB-validated ABCD1 Knockdown HeLa Cell Lysate
<b>Species</b>	Human
<b>Source</b>	HeLa
<b>Description</b>	<p>The protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the ALD subfamily, which is involved in peroxisomal import of fatty acids and/or fatty acyl-CoAs in the organelle. All known peroxisomal ABC transporters are half transporters which require a partner half transporter molecule to form a functional homodimeric or heterodimeric transporter. This peroxisomal membrane protein is likely involved in the peroxisomal transport or catabolism of very long chain fatty acids. Defects in this gene have been identified as the underlying cause of adrenoleukodystrophy, an X-chromosome recessively inherited demyelinating disorder of the nervous system.</p>
<b>Form</b>	Cell-Tissue Lysis buffer
<b>Molecular Mass</b>	83 kDa
<b>Notes</b>	Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa cell lysate for use. For Western blotting, we recommend running wild-type and

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	knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.
<b>Storage</b>	Store at -20 centigrade for two years.
<b>Concentration</b>	Lot-specific
<b>Shipping</b>	Blue Ice
<b>Components</b>	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg ABCD1 KD HeLa cell lysate
<b>Protein Families</b>	Druggable Genome
<b>Protein Pathways</b>	ABC transporters
<b>Lysate QC</b>	RT-qPCR; Western Blotting (WB)

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">ABCD1 ATP-binding cassette, sub-family D (ALD), member 1 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	<a href="#">ABCD1</a>
<b>Synonyms</b>	ABCD1; ATP-binding cassette, sub-family D (ALD), member 1; ALD; ATP-binding cassette sub-family D member 1; adrenoleukodystrophy; ALDP; AMN; adrenoleukodystrophy protein; ABC42;
<b>Gene ID</b>	<a href="#">215</a>
<b>mRNA Refseq</b>	<a href="#">NM_000033</a>

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**Protein Refseq** [NP\\_000024](#)

**MIM** [300371](#)

**UniProt ID** [P33897](#)

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