Human ABCD1 Knockdown Cell Lysate

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

SPECIFICATION

Product Overview	WB-validated ABCD1 Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
Description	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.
Form	Cell-Tissue Lysis buffer
Molecular Mass	83 kDa
Notes	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.
Storage	Store at -20 centigrade for two years.
Concentration	Lot-specific
Shipping	Blue Ice
Components	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg ABCD1 KD HeLa cell lysate
Protein Families	Druggable Genome
Protein Pathways	ABC transporters
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	ABCD1 ATP-binding cassette, sub-family D (ALD), member 1 [Homo sapiens (human)]
Official Symbol	ABCD1
Synonyms	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;
Gene ID	215
mRNA Refseq	NM_000033

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Protein Refseq	NP_000024
MIM	300371
UniProt ID	P33897

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