

Recombinant Human ABCD1, GST-tagged

Cat. No. ABCD1-3738H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ABCD1(1 a.a. - 745 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
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.
Molecular Mass	109.3 kDa
AA Sequence	MPVLSRPRPWGNTLKRTAVLLALAAYGAHKVYPLVRQCLAPARGQLQAPAGEPTQE ASGVAAAKAGMNRVFLQRL LWLLRLLFPRVLCRETGLLALHSAALVSRTFLSVYVAR

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LDGRLARCIVRKDPRAFGWQLLQWLLIALPATFVNSA IRYLEGQLALSFRSRLVAHA
YRLYFSQQTYTYRVSNDGRLRNPQSLTEDVVAFAASVAHLYSNLTKPLLDVAVT S
YTLLRAARSRGAGTAWPSAIALGLVFLTANVLRASFSPKFGELVAEEARRKGELRYMH
SRVVANSEEIAFYGGHE VELALLQRSYQDLASQINLILLERLWYVMLEQFLMKYVWS
ASGLLMVAVPIITATGYSESDAEAVKKAALKKEE ELVSE RTEAFTIARNLLTAAADAI
ERIMSSYKEVTELAGYTARVHEMFQVFEDVQRCHFKRPRELEDAQAGSGTI GRSG
VRVEGPLKIRGQVVDVEQGIICENIPIVTPSGEVVVASLNIRVEEGMHLLITGPNCGCK
SSLFRILGGLWP TYGGVLYKPPPQRMFYIPQRPYMSVGSRLRDQVIYPDSVEDMQRK
GYSEQDLEAILDVVHLHHILQREGGWEAMCD WKDVLSGGEKQRIGMARMFYHRPK
YALLDECTSAVSIDVEGKIFQAAKDAGIALLSITHRPSLWKYHHTLLQFDG EGGWKF
EKLDSAARLSLTEEKQRLEQQLAGIPKMQRRLQELCQILGEAVAPAHVPAPSPQGP
GGLQGAST

Applications

ELISA; WB-Re; AP; Array

Storage

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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

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mRNA Refseq	NM_000033
Protein Refseq	NP_000024
MIM	300371
UniProt ID	P33897
Chromosome Location	Xq28
Pathway	ABC transporters; Beta-oxidation of very long chain fatty acids; Peroxisomal lipid metabolism
Function	ATP binding; ATPase activity, coupled to transmembrane movement of substances; enzyme binding

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