

## Recombinant Human ABCD1, GST-tagged

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

### SPECIFICATION

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

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LDGRLARCIVRKDPRAFGWQLLQWLLIALPATFVNSA IRYLEGQLALSFRSRLVAHA  
 YRLYFSQQTYRVSNDGRLRNPDQSLTEDVVAFAASVAHLYSNLTKPLLDVAVT S  
 YTLLRAARSRGAGTAWPSAIAGLVVFLTANVLRAFSPKFGELVAEEARRKGELRYMH  
 SRVVANSEEIFYGGHE VELALLQRSYQDLASQINLILLERLWYVMLEQFLMKYVWS  
 ASGLLMVAVPIITATGYSESDAEAVKKAALKKEE ELVSERTEAFTIARNLLTAAADAI  
 ERIMSSYKEVTELAGYTARVHEMFQVFEDVQRCHFKRPRELEDAQAGSGTI GRSG  
 VRVEGPLKIRGQVVDVEQGIICENIPIVTPSGEVVVASLNIRVEEGMHLLITGPNGCGK  
 SSSLFRILGGLWP TYGGVLYKPPPQRMFYIPQRPYMSVGSRLRDQVIYPDSVEDMQRK  
 GYSEQDLEAILDVVHLHHILQREGGWEAMCD WKDVLSGGEKQRIGMARMFYHRPK  
 YALLDECTSAVSIDVEGKIFQAAKDAGIALLSITHRPSLWKYHTHLLQFDG 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** [215](#)

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

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