

## Product datasheet for **TP306885L**

### **ABCD1 (NM\_000033) Human Recombinant Protein**

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human ATP-binding cassette, sub-family D (ALD), member 1 (ABCD1), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC206885 protein sequence <span style="color: red;">Red</span> =Cloning site <span style="color: green;">Green</span> =Tags(s)

MPVLSRPRPWGNTLKR TAVLLALAAYGAHKVYPLVRQCLAPARGLQAPAGEPTQEASGVAAAKAGMNR  
 V  
 FLQRLLWLLRLLFPRVLCRETGLLALHSAALVSRTFLSVYVARLDGRLARCIVRKDPRAFGWQLLQWLLI  
 ALPATFVNSAIRYLEGQLALSFRSRLVAHAYRLYFSQQTYRVSNDGRLRNPQSLTEDVVAFAASVAH  
 LYSNLTKPLLDVAVTSYTLRAARSRGAGTAWPSAIALVFLTANVLRASFSPKFGELVAEEARRKGELR  
 YMHSRVVANSEEIFYGGHEVELALLQRSYQDLASQINLILLERLWYVMLEQFLMKYVWSASGLLMVAVP  
 IITATGYSESDAEAVKKALEKKEEELVSERTEAFTIARNLLTAAADAIERIMSSYKEVTELAGYTARVH  
 EMFQVFEDVQRCHFKRPRELEDAQAGSGTIGRSGVRVEGPLKIRGQVVDVEQGIICENIPIVTPSGEVV  
 ASLNIRVEEGMHLLITGPNCGKSSLFRILGGLWPTYGGVLYKPPQRMFYIPQRPYMSVGSRLDQVIYP  
 DSVEDMQRKGYSEQDLEAILDVVHLHHILQREGGWEAMCDWKDVLSGGEEKQRIGMARMFYHRPKYALL  
 DE  
 CTSVAVSIDVEGKIFQAAKDAGIALLSITHRPSLWKYHLLQFDGEGGWKFELDSAARLSLTEEKQRL  
 E  
 QQLAGIPKMQRRLQELCQILGEAVAPAHVPAPSPQGPGLQGAST

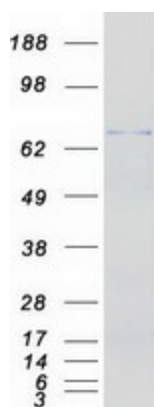
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	82.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.


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<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_000024</a>
<b>Locus ID:</b>	215
<b>UniProt ID:</b>	<a href="#">P33897</a>
<b>RefSeq Size:</b>	3697
<b>Cytogenetics:</b>	Xq28
<b>RefSeq ORF:</b>	2235
<b>Synonyms:</b>	ABC42; ALD; ALDP; AMN
<b>Summary:</b>	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. [provided by RefSeq, Jul 2008]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	ABC transporters

### Product images:



Coomassie blue staining of purified ABCD1 protein (Cat# [TP306885]). The protein was produced from HEK293T cells transfected with ABCD1 cDNA clone (Cat# [RC206885]) using MegaTran 2.0 (Cat# [TT210002]).