

ATP-binding cassette sub-family D member 1 (ABCD1) Recombinant Protein | ABCD1 recombinant protein

Recombinant Human ATP-binding cassette sub-family D member 1 (ABCD1)(Active)

CATALOG # AAA279385	HOST Cell Free Expression
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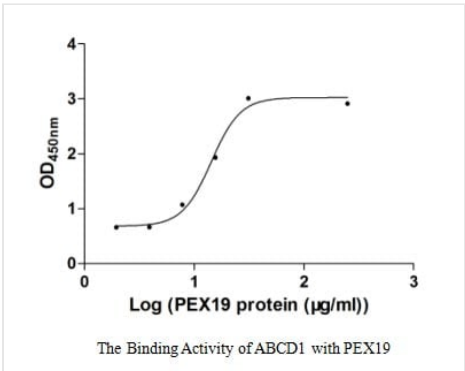
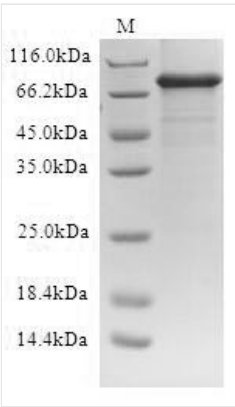
PRODUCT SYNONYMS

ATP-binding cassette sub-family D member 1 (ABCD1); Recombinant Human ATP-binding cassette sub-family D member 1 (ABCD1)(Active); Adrenoleukodystrophy protein; ABCD1 recombinant protein

PRODUCT SPECIFICATIONS

Host	Cell Free Expression
Purity/Purification	Greater than 90% as determined by SDS-PAGE.
Form/Format	Lyophilized powder. Lyophilized from 20 mM Tris-HCl, 0.15 M NaCl, 0.05% FOS12, 6% Trehalose, pH 8.0
Sequence Positions	1-745aa; Full Length
Sequence	MPVLSRPRPW RGNTLKRTAV LLALAAYGAH KVYPLVRQCL APARGLQAPA GEPTQEASGV AAKAGMNRV FLQRLWLLR LLFPRVLCRE TGLLALHSA LVSRTFLSVY VARLDGRLAR CIVRKDPRAF GWQLLQWLLI ALPATFVNSA IRYLEGQLAL SFRSRLVAHA YRLYFSQQT YRVSNM DGRL RNP DQSLTED VVFAASVAH LYSNLTKPLL DVAVTSYLL RAARSRGAGT AWPSAIGLV VFLTANVLR FSPKFGELVA EEARRKGELR YMHSRVVANS EEIAFYGGHE VELALLQRSY QDLASQINLI LLERLWYVML EQFLMKYVWS ASGLLMVAVP IITATGYSES DAEAVKKAAL EKKEEELVSE RTEAFTIARN LLTAAADAIE RIMSSYKEVT ELAGYTARVH EMFQVFEDVQ RCHF KRPREL EDAQAGSGTI GRSGVRVEGP LKIRGQVVDV EQGIICENIP IVTPSGEVVV ASLNIRVEEG MHLITGPNG CGKSSLFRIL GGLWPTYGGV LYKPPQRMF YIPQRPYMSV GSLRDQVIYP DSVEDMQRKG YSEQDLEAIL DVVHLHHILQ REGGWEAMCD WKDVLSGGEK QRIGMARMFY HRPKYALLDE CTSAVSIDVE GKIFQAAKDA GIALLSITHR PSLWKYHTHL LQFDGEGGWK FEKLDSAARL SLTEEKQRLE QQLAGIPKMQ RRLQELCQIL GEAVAPAHVP APSPQGP GGL QGAST
Species	Homo sapiens (Human)
Tag	C-terminal 10xHis-tagged
Transmembrane Domain	5TM
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized ABCD1 at 5ug/ml can bind human PEX19,the EC50 of human PEX19 protein is 22.96-33.00ug/ml.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20 degree C/-80 degree C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Preparation and Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 degree C/-80 degree C. The shelf life of lyophilized form is 12 months at -20 degree C/-80 degree C. Notes: Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week.

IMAGES



Bioactivity

SDS-PAGE
Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

ADDITIONAL INFORMATION

Related Product Information for ABCD1 recombinant protein	Probable transporter. The nucleotide-binding fold acts as an ATP-binding subunit with ATPase activity.
Product Categories/Family for ABCD1 recombinant protein	Tags & Cell Markers

NCBI AND UNIPROT INFORMATION

NCBI GI #	7262393
NCBI GeneID	215
NCBI Accession #	NP_000024.2
NCBI GenBank Nucleotide #	NM_000033.3
UniProt Accession #	P33897; Q6GTZ2
Molecular Weight	82,937 Da
NCBI Official Full Name	ATP-binding cassette sub-family D member 1
NCBI Official Synonym Full Names	ATP-binding cassette, sub-family D (ALD), member 1
NCBI Official Symbol	ABCD1
NCBI Official Synonym Symbols	ALD; AMN; ALDP; ABC42
NCBI Protein Information	ATP-binding cassette sub-family D member 1; adrenoleukodystrophy protein
UniProt Protein Name	ATP-binding cassette sub-family D member 1
UniProt Gene Name	ABCD1
UniProt Synonym Gene Names	ALD; ALDP
UniProt Entry Name	ABCD1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.