

Product Name: ABCD1 Rabbit Polyclonal Antibody

Catalog #: APRab06415

For research use only.

Summary

Description Rabbit polyclonal Antibody

Host Rabbit
Application WB,ELISA

Reactivity Human,Rat,Mouse
Conjugation Unconjugated
Modification Unmodified

Isotype IgG

ClonalityPolyclonalFormLiquidConcentration1mg/ml

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type **Buffer**

preservative N.

Purification Affinity purification

Application

Dilution Ratio WB 1:500-1:2000,ELISA 1:20000-1:40000

Molecular Weight 75kDa

Antigen Information

Gene Name ABCD1

ABCD1; ALD; ATP-binding cassette sub-family D member 1; Adrenoleukodystrophy protein;

Alternative Names

ALDP

 Gene ID
 215.0

 SwissProt ID
 P33897

The antiserum was produced against synthesized peptide derived from human ABCD1. AA **Immunogen**

range:531-580

Background

Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

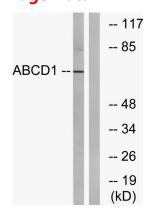


The protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein 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 disorddisease:Defects in ABCD1 are the cause of adrenoleukodystrophy X-linked (X-ALD) [MIM:300100]. X-ALD is a peroxisomal metabolic disorder characterized by progressive multifocal demyelination of the central nervous system and by peripheral adrenal insufficiency (Addison disease). It results in mental deterioration, corticospinal tract dysfunction, and cortical blindness. Different clinical manifestations exist like: cerebral childhood ALD (CALD), adult cerebral ALD (ACALD), adrenomyeloneuropathy (AMN) and "Addison disease only" (ADO) phenotype., disease: Microdeletions in ABCD1 are involved in the contiguous ABCD1/DXS1375E deletion syndrome (CADDS) [MIM:300475]. Patients manifest profound neonatal hypotonia, subsequent failure to thrive, and cholestatic liver disease, function: Probable transporter. The nucleotidebinding fold acts as an ATP-binding subunit with ATPase activity., similarity: Belongs to the ABC transporter family. ALD subfamily, similarity: Contains 1 ABC transmembrane type-1 domain., similarity: Contains 1 ABC transporter domain., subunit: Can form homo- and heterodimers with ABCD2/ALDR and ABCD3/PMP70. Dimerization is necessary to form an active transporter. Interacts with PEX19..

Research Area

ABC transporters;

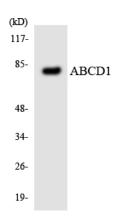
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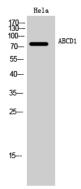
Western blot analysis of lysates from Jurkat cells, using ABCD1 Antibody. The lane on the right is blocked with the synthesized peptide.

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Western blot analysis of the lysates from HeLa cells using ABCD1 antibody.



Western Blot analysis of Hela cells using ABCD1 Polyclonal Antibody

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