abcam

Product datasheet

Recombinant human ABCD1/ALD protein (Active) ab235011

2 Images

Description

Product name Recombinant human ABCD1/ALD protein (Active)

Biological activity Measured by its binding ability in a functional ELISA. Immobilized ab235011 at 5 μg/ml can bind

human PEX19, the EC₅₀ of human PEX19 protein is 22.96-33.00 μ g/ml.

Purity > 90 % SDS-PAGE.

Expression system Escherichia coli

Accession <u>P33897</u>

Protein length Full length protein

Animal free No

Nature Recombinant

Species Human

Sequence MPVLSRPRPWRGNTLKRTAVLLALAAYGAHKVYPLVRQC

LAPARGLQAPA

GEPTQEASGVAAAKAGMNRVFLQRLLWLLRLLFPRVLCR

ETGLLALHSAA

LVSRTFLSVYVARLDGRLARCIVRKDPRAFGWQLLQWLLI

ALPATFVNSA

IRYLEGQLALSFRSRLVAHAYRLYFSQQTYYRVSNMDGRLR

NPDQSLTED

VVAFAASVAHLYSNLTKPLLDVAVTSYTLLRAARSRGAGT

AWPSAIAGLV

VFLTANVLRAFSPKFGELVAEEARRKGELRYMHSRVVAN

SEEIAFYGGHE

VELALLQRSYQDLASQINLILLERLWYVMLEQFLMKYVWSA

SGLLMVAVP

IITATGYSESDAEAVKKAALEKKEEELVSERTEAFTIARNLL

TAAADAIE

RIMSSYKEVTELAGYTARVHEMFQVFEDVQRCHFKRPRE

LEDAQAGSGTI

GRSGVRVEGPLKIRGQVVDVEQGIICENIPIVTPSGEVVVA

SLNIRVEEG

MHLLITGPNGCGKSSLFRILGGLWPTYGGVLYKPPPQRMF

1

YIPQRPYMSV

GSLRDQVIYPDSVEDMQRKGYSEQDLEAILDVVHLHHILQ

REGGWEAMCD

WKDVLSGGEKQRIGMARMFYHRPKYALLDECTSAVSIDV

EGKIFQAAKDA

GIALLSITHRPSLWKYHTHLLQFDGEGGWKFEKLDSAARL

SLTEEKQRLE

QQLAGIPKMQRRLQELCQILGEAVAPAHVPAPSPQGPGG

LQGAST

Predicted molecular weight 85 kDa including tags

Amino acids 1 to 745

Tags His tag C-Terminus

Additional sequence information C-terminal 10xHis-tagged

Specifications

Our Abpromise guarantee covers the use of ab235011 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications Functional Studies

SDS-PAGE

Form Liquid

Additional notes Produced in an in vitro E.coli expression system.

Previously labelled as ABCD1.

Preparation and Storage

Stability and Storage Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 7.2

Constituents: Tris buffer, 50% Glycerol (glycerin, glycerine)

This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

Function Probable transporter. The nucleotide-binding fold acts as an ATP-binding subunit with ATPase

activity.

Involvement in disease 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.

Note=The promoter region of ABCD1 is deleted in the chromosome Xq28 deletion syndrome

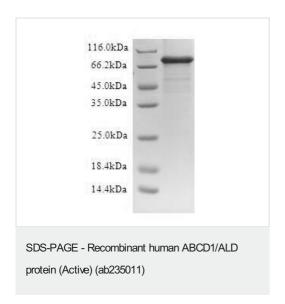
which involves ABCD1 and the neighboring gene BCAP31.

Sequence similarities Belongs to the ABC transporter superfamily. ABCD family. Peroxisomal fatty acyl CoA transporter

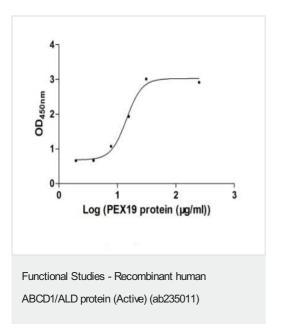
(TC 3.A.1.203) subfamily.

Peroxisome membrane.

Images



ab235011 analyzed by (Tris-Glycine gel) discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Immobilized ab235011 at 5 μ g/ml can bind human PEX19, the EC₅₀ of human PEX19 is 22.96-33.00 μ g/ml.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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