abcam

Product datasheet

Anti-ABCD1/ALD antibody ab77364

1 Image

Overview

Product name	Anti-ABCD1/ALD antibody
Description	Goat polyclonal to ABCD1/ALD
Host species	Goat
Tested applications	**Suitable for:** WB, ELISA
Species reactivity	**Reacts with:** Human **Predicted to work with:** Horse, Dog
Immunogen	Synthetic peptide corresponding to Human ABCD1/ALD aa 564-575 (internal sequence). Sequence: EDMQRKGYSEQD Database link: **NP_000024.2** Run BLAST with Run BLAST with
Positive control	Human brain (cerebellum) lysates
General notes	Previously labelled as ABCD1.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 0.5% BSA, Tris buffered saline
Purity	Immunogen affinity purified
Purification notes	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab77364 in the following tested applications.

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

Application	Abreviews	Notes
WB		
ELISA		

Application notes Peptide ELISA: Use at an assay dependent dilution. Antibody detection limit dilution: 1/32000.
WB: Use at a concentration of 1 µg/ml. Predicted molecular weight: 83 kDa.

Not yet tested in other applications.
Optimal dilutions/concentrations should be determined by the end user.

Target

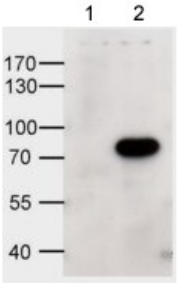
Function Probable transporter. The nucleotide-binding fold acts as an ATP-binding subunit with ATPase activity.

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.
Contains 1 ABC transmembrane type-1 domain.
Contains 1 ABC transporter domain.

Cellular localization Peroxisome membrane.

Images



Western blot - Anti-ABCD1/ALD antibody (ab77364)

All lanes : Anti-ABCD1/ALD antibody (ab77364) at 1 µg/ml

Lane 1 : Cell lysate prepared from HEK293 mock transfected cells.
Lane 2 : Cell lysate prepared from HEK293 cells overexpressing human ABCD1 / ALD.

Predicted band size: 83 kDa

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

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