

ABCD1 / ALD (AX2300) Rabbit mAb

M0300

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, ELISA

MW

- 83kDa (Calculated)
- 83kDa (Observed)

Isotype

- IgG

Recommended Dilution Ratios

Application

Western Blotting (WB)
 ELISA

Dilution

1:500-1000

Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Storage

Storage at -15°C to -25°C/1 year (Do not lower than -25°C)

Storage buffer PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

Basic Information

Clonality Monoclonal

Clone Number AX2300

Immunogen Recombinant fusion protein containing a sequence corresponding to amino acids 650-745 of human ABCD1 / ALD (NP_000024.2).

Specificity The antibody can specifically recognize human ABCD1 / ALD protein.

Purification Affinity purification Protein A

Concentration Product concentration may vary by batch. Please refer to the product COA for details.

Target Information

Gene name ABCD1

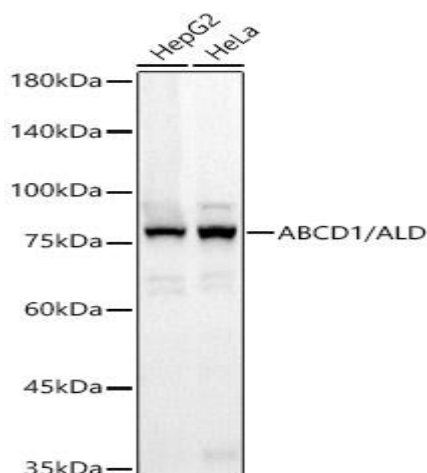
Protein Name ABCD1 / ALD

Database Link	Organism	Swiss Prot.	Gene ID
	Human	P33897	215
	Mouse	P48410	11666
	Rat		

Background

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.

Validation Data



Western blot analysis of various lysates, using ABCD1/ALD Rabbit mAb (M0300) at 1:1000 dilution. |Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (SA0002) at 1:10000 dilution. |Lysates/proteins: 25 μ g per lane. |Blocking buffer: 3% nonfat dry milk in TBST. |Detection: ECL Basic Kit. |Exposure time: 20s.