

**ABCD2 Rabbit Polyclonal Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # AP93286****Specification**

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**ABCD2 Rabbit Polyclonal Antibody - Product Information**

Application	WB, E
Primary Accession	<a href="#">O9UBJ2</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	81kD KDa

**ABCD2 Rabbit Polyclonal Antibody - Additional Information****Gene ID** 225**Other Names**

ABCD2 ALD1 ALDL1 ALDR ALDRP

**Dilution**

WB~~1:1000

E~~N/A

**Format**

Liquid in PBS containing 50% glycerol, and 0.02% New type preservative N.

**Storage Conditions**

-20°C

**ABCD2 Rabbit Polyclonal Antibody - Protein Information****Name** ABCD2 ([HGNC:66](#))**Function**

ATP-dependent transporter of the ATP-binding cassette (ABC) family involved in the transport of very long chain fatty acid (VLCFA)- CoA from the cytosol to the peroxisome lumen (PubMed:<a href="http://www.uniprot.org/citations/21145416" target="\_blank">21145416</a>, PubMed:<a href="http://www.uniprot.org/citations/29397936" target="\_blank">29397936</a>). Like ABCD1 seems to have fatty acyl-CoA thioesterase (ACOT) and ATPase activities, according to this model, VLCFA-CoA as free VLCFA is transpoted in an ATP-dependent manner into peroxisomes after the hydrolysis of VLCFA-CoA mediated by the ACOT activity of ABCD2 (Probable) (PubMed:<a href="http://www.uniprot.org/citations/29397936" target="\_blank">29397936</a>). Shows overlapping substrate specificities with ABCD1 toward saturated fatty acids (FA) and monounsaturated FA (MUFA) but has a distinct substrate preference for shorter VLCFA (C22:0) and polyunsaturated fatty acid (PUFA) such as C22:6-CoA and C24:6-CoA (in vitro) (PubMed:<a href="http://www.uniprot.org/citations/21145416" target="\_blank">21145416</a>). Thus, may play a role in regulation of VLCFAs and energy metabolism namely, in the degradation and

biosynthesis of fatty acids by beta-oxidation (PubMed:<a href="http://www.uniprot.org/citations/21145416" target="\_blank">21145416</a>).

**Cellular Location**

Peroxisome membrane; Multi-pass membrane protein

**Tissue Location**

Predominantly expressed in brain and heart.

**ABCD2 Rabbit Polyclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**ABCD2 Rabbit Polyclonal Antibody - Images****ABCD2 Rabbit Polyclonal Antibody - 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. The function of this peroxisomal membrane protein is unknown; however this protein is speculated to function as a dimerization partner of ABCD1 and/or other peroxisomal ABC transporters. Mutations in this gene have been observed in patients with adrenoleukodystrophy, a severe