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Product datasheet for AP50019PU-N

ABCD2 (C-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	**ELISA:** 1/1000. **Western blotting:** 1/100 - 1/500. **Immunohistochemistry on paraffin sections:** 1/10 - 1/50.
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 552-582 amino acids from the C-terminal region of human ABCD2.
Specificity:	This antibody reacts to ABCD2.
Formulation:	PBS with 0.09% (W/V) sodium azide as preservative State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Affinity chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	ATP binding cassette subfamily D member 2
Database Link:	Entrez Gene 225 Human Q9UBJ2

View online »

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 demyelinating disease. This gene has been identified as a candidate for a modifier gene, accounting for the extreme variation among adrenoleukodystrophy phenotypes. This gene is also a candidate for a complement group of Zellweger syndrome, a genetically heterogeneous disorder of peroxisomal biogenesis.

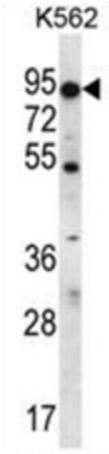
Synonyms: Adrenoleukodystrophy-related protein, Adrenoleukodystrophy-like 1, ALD1, ALDL1, ALDRP

Note: **Molecular Weight:** 83233 Da

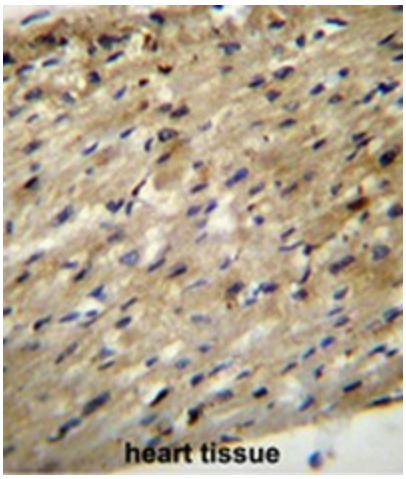
Protein Families: Druggable Genome

Protein Pathways: ABC transporters

Product images:



ABCD2 Antibody (C-term) western blot analysis in K562 cell line lysates (35 ug/lane).This demonstrates the ABCD2 antibody detected the ABCD2 protein (arrow)



ABCD2 Antibody (C-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human heart tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of ABCD2 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.