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Product datasheet for TA308846

ABCD2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB:1:500-1:3000
Reactivity:	Human (Predicted: Mouse, Chicken, Rat)
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant fragment corresponding to a region within amino acids 338 and 588 of ABCD2 (Uniprot ID#Q9UBJ2)
Formulation:	0.1M Tris, 0.1M Glycine, 10% Glycerol (pH7). 0.01% Thimerosal was added as a preservative.
Concentration:	lot specific
Purification:	Purified by antigen-affinity chromatography.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	83 kDa
Gene Name:	ATP binding cassette subfamily D member 2
Database Link:	NP_005155 Entrez Gene 26874 MouseEntrez Gene 84356 RatEntrez Gene 225 Human Q9UBJ2

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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. [provided by RefSeq]

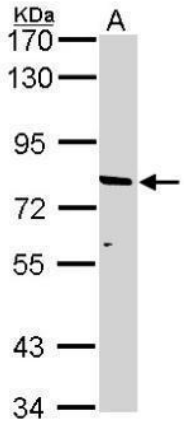
Synonyms: ABC39; ALDL1; ALDR; ALDRP; hALDR

Note: Seq homology of immunogen across species: Mouse (94%), Chicken (85%), Rat (92%)

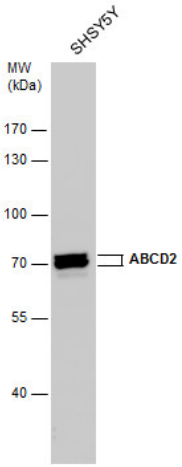
Protein Families: Druggable Genome

Protein Pathways: ABC transporters

Product images:



Sample (30 ug of whole cell lysate). A: A431. 7.5% SDS PAGE. TA308846 diluted at 1:1000.



ABCD2 antibody detects ABCD2 protein by western blot analysis. Whole cell extracts (30 ug) was separated by 7.5% SDS-PAGE, and the membrane was blotted with ABCD2 antibody (TA308846) diluted by 1:500.