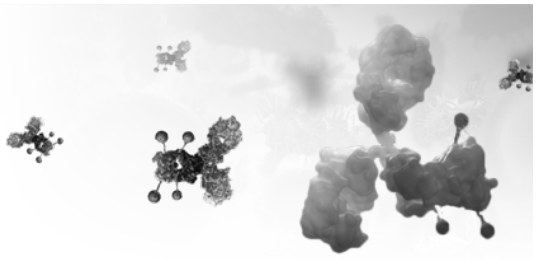

Rabbit Anti-Human ABCD2 Polyclonal Antibody (CABT-L2280)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Polyclonal Antibody to ATP Binding Cassette Transporter D2 (Knockout Validated)
Specificity	The antibody is a rabbit polyclonal antibody raised against ABCD2. It has been selected for its ability to recognize ABCD2 in immunohistochemical staining and western blotting.
Target	ABCD2
Immunogen	Recombinant fragment corresponding to human ABCD2 (Lys501~Leu695)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse
Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Conjugate	Unconjugated
Applications	WB
Format	Liquid
Concentration	Lot specific
Size	200 µg
Buffer	Supplied as solution form in 0.01M PBS with 50% glycerol, pH7.4.
Preservative	0.05% Proclin-300

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Storage	Avoid repeated freeze/thaw cycles. Store at 4°C for frequent use. Aliquot and store at -20°C for 12 months.
Ship	4°C with ice bags

BACKGROUND

Introduction	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, Jul 2008]
Keywords	ABC-D2;ABC39;ALDL1;ALDR;ALDRP;hALDR;Adrenoleukodystrophy-like 1;Adrenoleukodystrophy-related protein;ATP-binding cassette sub-family D member 2

GENE INFORMATION

Gene Name	ABCD2 ATP-binding cassette, sub-family D (ALD), member 2 [Homo sapiens (human)]
Official Symbol	ABCD2
Synonyms	ABCD2; ATP-binding cassette, sub-family D (ALD), member 2; ALDR; ABC39; ALDL1; ALDRP; hALDR; ATP-binding cassette sub-family D member 2; adrenoleukodystrophy-like 1; adrenoleukodystrophy-related protein;
Entrez Gene ID	225
Protein Refseq	NP_005155
UniProt ID	Q9UBJ2
Chromosome Location	12q12
Pathway	ABC transporters; ABC-family proteins mediated transport; ABCA transporters in lipid

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	homeostasis; Nuclear receptors in lipid metabolism and toxicity; Peroxisome; Transmembrane transport of small molecules;
Function	ATP binding; ATPase activity, coupled to transmembrane movement of substances; protein binding; protein homodimerization activity;

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