ABCD3 Polyclonal Antibody

Catalog No	BYab-05353
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;ELISA
Gene Name	ABCD3 PMP70 PXMP1
Protein Name	ATP-binding cassette sub-family D member 3 (70 kDa peroxisomal membrane protein) (PMP70)
Immunogen	Synthesized peptide derived from human protein . at AA range: 40-120
Specificity	ABCD3 Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	72kD
Cell Pathway	Peroxisome membrane ; Multi-pass membrane protein .
Tissue Specificity	Brain,Liver,Lung,
Function	disease:Defects in ABCD3 may be the cause of Zellweger syndrome type 2 (ZWS-2) [MIM:170995]. ZWS-2 is an autosomal recessive disorder due to defective import mechanisms for peroxisomal matrix enzymes. The clinical phenotype includes characteristic facies, progressive neurological dysfunction, liver disease and death in infancy.,function:Probable transporter. The nucleotide-binding fold acts as an ATP-binding subunit with ATPase activity.,similarity:Belongs to the ABC transporter family. ALD subfamily.,similarity:Contains 1 ABC transmembrane type-1 domain.,similarity:Contains 1 ABC transporter domain.,subunit:Can form heterodimers with ABCD1/ALD and ABCD2/ALDR. Dimerization is necessary to form an active transporter. Interacts with PEX19.,

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 likely plays an important role in peroxisome biogenesis. Mutations have been associated with some forms of Zellweger syndrome, a heterogeneous group of peroxisome assembly disorders. Alternative splicing results in multiple transcript variants
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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